

NOAA Technical Memorandum NMFS



SEPTEMBER 1987

ICHTHYOPLANKTON AND STATION DATA FOR CALIFORNIA COOPERATIVE OCEANIC FISHERIES INVESTIGATIONS SURVEY CRUISES IN 1954

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ABSTRACT

This report provides ichthyoplankton and associated station and tow data from California Cooperative Oceanic Fisheries Investigations (CalCOFI) cruises conducted off California and Baja California in 1954. It is the fourth report in a series that presents these data for all biological-oceanographic CalCOFI surveys from 1951 to the present. A total of 1473 stations was occupied during 10 multivessel cruises over the quarter-million square mile survey area which extends from the California-Oregon border to Cape San Lucas, Mexico and seaward to several hundred miles. The data are listed in a series of 5 tables; the background, methodology, and information necessary for interpretation and quantitative analysis of the data are presented in an accompanying text. All pertinent station and tow data, including volumes of water strained and standard haul factors are listed in the first table. Another key table lists, by station and month, standardized counts of each of the 129 larval fish categories identified from survey samples. This and previous and subsequent reports make the CalCOFI ichthyoplankton and station data available to all investigators and serve as guides to the newly developed computer data base.

INTRODUCTION

This report, the fourth of a series, provides ichthyoplankton and associated station and tow data from California Cooperative Oceanic Fisheries Investigations (CalCOFI) joint biological-oceanographic survey cruises conducted in 1954. This program was initiated in 1949, under the sponsorship of the Marine Research Committee of the State of California, to study the population fluctuations of the Pacific sardine (*Sardinops sagax*) and the environmental factors that may play a role in such fluctuations. CalCOFI, known as the California Cooperative Sardine Research Program from 1949 to 1953, was made up of representatives of the South Pacific Fisheries Investigations (SPFI) of the U.S. Fish and Wildlife Service [now the La Jolla Laboratory, National Marine Fisheries Service (NMFS)], the Scripps Institution of Oceanography (SIO), the California Department of Fish and Game (CDFG), the California Academy of Sciences (CAS) and the Hopkins Marine Station of Stanford University. The first three of these agencies supplied ships and personnel to conduct the sea surveys. NMFS processed the plankton samples and analyzed the ichthyoplankton from them. SIO processed and analyzed the hydrographic samples and measurements and also analyzed invertebrate groups from the plankton samples.

The boundaries, station placement, and sampling frequency for the CalCOFI survey area were based on the results of joint biological and oceanographic cruises conducted by NMFS and SIO during 1939-41. Those cruises were designed to collect sardine eggs and larvae and associated hydrographic data over the entire areal and seasonal spawning range of the species. On these survey cruises, plankton tows were made to 70 m, a depth which

encompassed the vertical distribution of sardine eggs and larvae. Wide-ranging joint biological and oceanographic survey cruises were resumed in 1949 with sardine as the focus; however, an increasing interest in other biological components resulted in the deepening of standard tows to 140 m in 1951. This marked the beginning of truly quantitative ichthyoplankton sampling on CalCOFI surveys.

Data resulting from CalCOFI surveys in 1954 have been published in a number of forms. Hydrographic data (Reid et al., 1965), zooplankton volumes (Staff, SPFI, 1955; Thrailkill, 1956; Smith, 1971) and ichthyoplankton data for selected species (Ahlstrom and Kramer, 1956) were presented in standard formats. The latter lists counts for eggs and larvae of sardine and for larvae of northern anchovy (*Engraulis mordax*), jack mackerel (*Trachurus symmetricus*), Pacific mackerel (*Scomber japonicus*), Pacific hake (*Merluccius productus*), and rockfishes (*Sebastes* spp.). Also, length frequencies are listed for sardine, anchovy, jack mackerel, and Pacific mackerel larvae. Distribution maps of larvae of 5 of these taxa taken on CalCOFI surveys during 1954 are presented in the CalCOFI Atlas series (Kramer and Ahlstrom, 1968; Ahlstrom, 1969; Kramer, 1970; Ahlstrom et al., 1978).

A computer data base for eggs and larvae of sardine and anchovy and for larvae of hake, and the two mackerels was established in 1969. The development of a data base for other fish larvae is a complex undertaking because competency of identification has evolved steadily over the past 38 years. We began the task of producing a CalCOFI ichthyoplankton data base and associated data report series in 1983. All available original records for 1954 were subjected to an extensive verification and editing process to produce this report. This, and previous (Ambrose et al., 1987; Sandknop et al., 1987; Stevens et al., 1987) and subsequent reports, make the CalCOFI ichthyoplankton and station data available to all investigators and serve as guides to the computer data base. The data base will be modified when additional errors are discovered and when composite taxa from the earlier years are reidentified. These reports are the fundamental reference documents against which subsequent changes in the data base can be compared.

SAMPLING AREA AND PATTERN

In 1954, CalCOFI survey cruises were conducted at monthly intervals, except during September and November. A total of 1473 stations included in this data base was occupied on 10 cruises, with an average of 147 stations per cruise (range of 105-209). Coverage of the survey station pattern varied among cruises and the entire quarter-million square mile survey area was not covered on any single cruise (Figures 1-11; Table 1). The area off northern California (lines 50-57) was covered on only one cruise made in June. The area off central California (lines 60-73) was occupied monthly from April through August. On line 77 only stations 50 and 55 were occupied in January through

March and in October. The area between Pt. Conception, California and Pt. San Juanico, Baja California (lines 80-137) was surveyed in all 10 cruises. The area off southern Baja California (lines 140-157) was surveyed in January and December. Coverage usually extended seaward to stations 90 or 100 (approximately 160-300 miles offshore)¹ in the main sampling area, with an extended southern offshore pattern in January.

Five vessels were employed on these cruises: the *Crest*, *E. W. Scripps*, *Horizon*, *Paolina T.*, and *Spencer F. Baird* of SIO. Two vessels participated on each cruise except cruise 5404 which employed three vessels. The *Crest* was used on all cruises and the *Horizon* on all but 5408 and 5412. The other three vessels each participated on a single cruise (Ahlstrom and Kramer, 1956; Table 1).

SAMPLING GEAR AND METHODS

The standard CalCOFI net used from 1949 to 1969 had a 1-m diameter mouth opening (0.785 m^2 area) and an overall length of about 5 m. The net was constructed of 30xxx gauze, a heavy duty grade of silk bolting cloth, with a mesh size of 0.55 mm after shrinkage. The last 40 cm of the cone and the cod end were constructed of 56xxx grit gauze which had a mesh size of 0.25 mm after shrinkage. The net ring was fastened to a short 3-lead bridle connected to several meters of line which attached to the towing cable by a clamp. A current meter was suspended in the center of the net mouth to measure volume of water filtered (see Kramer et al., 1972, for further details).

The standard tow from 1951 through 1968 was an oblique haul to 140 m depth (to 15 m of the bottom in shallow areas) designed to filter a constant amount of water per depth interval (ca. $3 \text{ m}^3/\text{m}$ of depth) over the vertical range of most ichthyoplankters. Hauls were made at a ship speed of 1.5-2.0 knots and initiated by clamping the net line to the towing cable with the 45 kg terminal weight about 10-15 m below the surface. The net was lowered to 140 m depth by paying out 200 m of wire over a 4 minute period

¹CalCOFI lines (Figure 12) are arranged perpendicular to the coastline and extend from the Canadian border (line 10) to below Cape San Lucas, Baja California (line 157). Stations were established on the basis of a perpendicular to line 80 (off Pt. Conception) at a point designated as station 60. Stations were plotted seaward and shoreward from station 60 on each line. Cardinal CalCOFI lines (those ending in "0") are 120 miles apart and usually bracket two ordinal lines (ending in "3" or "7"), so that lines are 40 miles apart over most of the pattern. Cardinal stations are 40 miles apart and typically these are separated by a station number ending in "5" so that stations are 20 miles apart out to station 90 on most lines. Stations are placed at closer intervals near the coast and islands to accommodate these features (see Kramer et al., 1972 for further details).

(35 m of depth/min.). After fishing at depth for 30 seconds, the net was retrieved at 20 m/min. (14 m depth/min.). The angle of stray of the towing cable was recorded every 30 seconds and maintained at 45° ($\pm 3^{\circ}$) by adjusting the ship speed and course. After reaching the surface, the net was washed down and the samples preserved in 5% formalin buffered with sodium borate. Flowmeter readings were made at the beginning and end of each tow. Detailed descriptions of gear and methods are given by Ahlstrom (1953), Kramer et al. (1972), and Smith and Richardson (1977).

LABORATORY PROCEDURES

Laboratory processing began with the determination of a displacement volume for each sample (methods described in Staff, SPFI, 1953, 1955 and Kramer et al., 1972). Zooplankton volumes (including ichthyoplankton) of samples collected in 1954 are listed in Staff, SPFI (1955) and presented graphically in Thrailkill (1956) and Smith (1971).

Sorting involved the removal of ichthyoplankton from the sample and identification and separation of eggs and larvae of selected species (see introduction). Usually, each sample was sorted completely; however, some of the samples were fractioned into aliquots using a Folsom plankton splitter (McEwen et al., 1954) prior to sorting. Several criteria² were used to determine whether a sample was fractioned: samples containing an abundance of thaliacians and coelenterates and exceeding 150 ml in total plankton volume were fractioned (to 50%, 25%, 12.5%, or 6.25%) to approximate a reduced volume of 50 ml for sorting; samples with an excessive quantity of fish eggs and/or larvae were occasionally fractioned to expedite the sorting process in order to meet scheduled deadlines. If the identified fraction of an aliquot yielded rare or interesting species of fish larvae, the remaining fraction was frequently sorted and identified with the intent of finding additional specimens. Aliquot percentages for fractioned samples from 1954 are listed in Table 1 under the "Percent Sorted" column.

A "standard haul factor" (SHF) was calculated for each tow to make them comparable and allow estimations of areal abundance. This factor adjusts the number of eggs or larvae in a haul to the number in 10 m^3 of water strained per meter of depth fished. If the vertical distribution of the species has been encompassed, then the adjusted value is equivalent to the number under 10 m^2 of sea surface. The SHF is calculated for each haul by the formula:

²Personal communication, James R. Thrailkill, National Marine Fisheries Service, Southwest Fisheries Center, La Jolla, CA.

$$SHF = \frac{10 D}{V}$$

where D = depth of haul = cosine of the average angle of stray of the towing cable multiplied by cable length (m)

V = total volume of water (m³) strained during the haul

$$V = R \cdot a \cdot p$$

where R = total number of revolutions of the current meter during the haul

a = area (m²) of the mouth of the net

p = length of column of water (m) needed to produce one revolution of the current meter.

Tow depth, volume of water strained, and standard haul factor are listed in Table 1 for each tow taken during 1954. Detailed descriptions of factors involved in calculating these values are presented in Ahlstrom (1948), Kramer et al. (1972), and Smith and Richardson (1977).

IDENTIFICATION

Identification of ichthyoplankton species beyond those separated during the sorting process was carried out by a separate group of specialists. Ontogenetic stages of fishes are inherently difficult to identify and this is further complicated by the large number and diversity of species which contribute to the ichthyoplankton of the California Current region. Most identifications were accomplished by establishing ontogenetic series on the basis of morphology, meristics, and pigmentation and then identifying these series by relating them to known metamorphic, juvenile, or adult stages with overlapping features (Powles and Markle, 1984). A total of 127 taxa was identified for 1954, with 73 taken to species, 27 to genus, 22 to family, and 5 to order. Some of the developmental series recognized originally could not be assigned scientific names, particularly in the Bathylagidae, Myctophidae, and Pleuronectiformes. These were given descriptive names, which later were changed to scientific names as they became known. Beginning in 1954, identification of species within two large generic groups, *Lampanyctus* spp., and *Citharichthys* spp., was initiated. Larvae of *Seriola lalandi*, *Caulolatilus princeps* and *Etropus* spp. were also identified for the first time.

The task of producing a reliable and equitable ichthyoplankton data base required extensive procedures to verify, correct, and edit the original identifications. The

primary data source was the original identification sheets (see Kramer et al., 1972, for examples); however, a critical resource used in all phases of this process was the CalCOFI ichthyoplankton collection in which the samples are archived. Throughout the course of CalCOFI ichthyoplankton studies, samples have been identified to the lowest taxon possible. In reviewing these identifications for the data base, our approach has been conservative and we have preserved those identifications and counts which we could confirm, while correcting as many of the errors as possible. During the coding of the identification sheets, the "descriptive types" were assigned scientific names and reexamined, if necessary. After computer entry, taxonomic errors and inconsistencies in the data base were corrected and the most obvious identification errors were corrected. Our current knowledge of ichthyoplankton techniques coupled with a precise understanding of the development of identification competency in the program over the years allowed us to critically judge the historical records. Identifications were changed to different taxa, lumped to a higher taxonomic category, or given a more precise taxonomic name. In many cases, identifications of a taxon were inconsistent among cruises in a year, because of varying competency of identifiers. These records were made equitable by lumping to the higher taxonomic category to avoid biases that could result in quantitative misinterpretations.

Next, statistical, seasonal, and geographic outliers were identified, employing a series of graphic summaries and listings. Examination of geographic outliers proved to be especially effective because of our accumulated knowledge of species distributions. In the course of examining samples for these outliers, other identification errors were discovered and eventually all taxa were scrutinized to some extent. Lastly, certain taxa were reexamined in all samples for the entire CalCOFI time series. These taxa were selected because of their commercial, ecological, phylogenetic, or zoogeographic importance or because taxonomic confusion was at the ordinal level. The following is a list of the taxa for 1954 which received special attention, with explanations and caveats intended to aid in quantitative interpretations:

Anguilliformes - tentative and sporadic identifications to family or lower taxon lumped to order.

Sardinops sagax - all specimens south of line 120 checked for misidentification of *Opisthonema* spp.

Engraulidae - includes nearshore taxa (mostly *Anchoa* spp.) large enough to separate from *Engraulis mordax*. Some nearshore samples of small *E. mordax* may contain other anchovy genera, but could not be differentiated.

Nansenia spp. - all specimens checked and identified as *N. candida* or *N. crassa*; all specimens of these species near their range boundaries checked.

Sternoptychidae - tentative and sporadic identifications of hatchetfishes to genus were lumped to family.

Bathophilus spp. - all specimens checked.

Tactostoma macropus - all specimens checked.

Scopelarchidae - tentative and sporadic identifications to genus lumped to family.

Lampanyctus spp. - tentative and sporadic identifications to species (mostly descriptive types) lumped to genus; identification of *L. regalis* and *L. ritteri* begun in 1954.

Lampanyctus regalis - underrepresented because of inability to differentiate small larvae (<5 mm) from those of other species of the genus; counts may include other species of the genus because of difficulty in identifying larvae of this large and complex genus.

Lampanyctus ritteri - comment for *L. regalis* applies to this species.

Stenobranchius leucopsarus - all specimens at range boundaries checked.

Diogenichthys atlanticus - all specimens at margins of range checked.

Diogenichthys laternatus - all specimens at margins of range checked.

Electrona rissoi - recognition of this species was inconsistent and specimens may be included in *Protomyctophum crockeri* or Myctophidae; no original identifications were recorded in 1954.

Hygophum spp. - all specimens reidentified to species; residuals are small, poorly preserved specimens.

Myctophum aurolaternatum - specimen checked; originally called "Astronesthidae".

Protomyctophum crockeri - some samples on northern lines may contain *P. thompsoni*, which was not identified at the time; specimens south of line 130 checked.

Symbolophorus californiensis - all specimens south of line 120 checked for confusion with *Hygophum* spp., stemming from descriptive names.

Bregmaceros spp. - all gadiform types (see Index), except *Merluccius productus* and Macrouridae, reexamined.

Ophidiiformes - this category did not exist originally and ophidiiform larvae were included in *Brosomphysis marginata*, Carapidae, "Otophidium", "Zoarcidae", and "blenny"; identifications of *B. marginata* and Carapidae proved to be mostly correct and "Zoarcidae" to be a yet unidentified ophidiiform species; all "Otophidium" and "blenny" were reexamined and the former included *Ophidion scrippsae*, *Chilara taylori* and other ophidiiform taxa (moved to order); "blenny" contained *O. scrippsae*, *C. taylori*, and other ophidiiform taxa in addition to true blennioids.

Ceratioidei - identifications of this group were inconsistent and additional specimens may be in the unidentified fish larva category.

Trachipteridae - tentative and sporadic identifications to genus were lumped to family.

Melamphaes spp. - all identifications ascribed to Melamphaidae were reexamined and assigned to genus (*Melamphaes*, *Poromitra*) or species (*Scopelogadus bispinosus*). Larvae originally identified as *Melamphaes* spp. were not reexamined and this category may contain other melamphaid genera.

Cottidae - some samples may include specimens of *Scorpaenichthys marmoratus*, hexagrammids (e.g., *Oxylebius pictus*, *Zaniolepis* spp.), and some blennioids (e.g., *Hypsoblennius* spp.).

Oxylebius pictus - not identified originally; specimens recently identified from other taxa.

Zaniolepis spp. - not identified originally; specimens recently identified from other taxa.

Sebastes spp. - in addition to other scorpaenid genera, category includes *Prionotus* spp., serranids, scombrids, and other spiny-headed shorefishes, particularly in samples south of line 120.

Sebastolobus spp. - this category is underrepresented and additional specimens may be in *Sebastes* spp.

Hypsoblennius spp. - some specimens remain in Cottidae.

Clinidae - some specimens remain in Cottidae or unidentified fish larva category.

Labridae - tentative and sporadic identifications to genus were lumped to family.

Pomacentridae - specimens checked; now includes species other than *Chromis punctipinnis*, primarily in the south.

Chromis punctipinnis - records south of about line 120 may include other pomacentrid taxa.

Mugil spp. - all specimens checked.

Carangidae - all specimens checked; tentative and sporadic identifications to genus or species (except *Trachurus symmetricus*, *Seriola* spp., and *Seriola lalandi*) were lumped to family.

Seriola spp. - probably *Seriola rivoliana*, but additional specimens needed for confirmation.

Seriola lalandi - all specimens checked; not identified in earlier years.

Gerreidae - larvae of this family and other shorefishes (e.g., Haemulidae, Mullidae, Priacanthidae) were not identified and may be in the unidentified fish larva category or may be misidentified as *Sebastes* spp., Cottidae, etc.

Caulolatilus princeps - all specimens checked; not identified in earlier years.

Scombridae - all larvae identified to this family or constituent taxa (except *Scomber japonicus*) were reexamined and reassigned; underrepresentation or absence of these taxa may be attributed to misidentification or they may be in the unidentified fish larva category.

Nomeidae - absence of this family attributed to misidentification or placement in unidentified fish larva category.

Pleuronectiformes - all available specimens of this category (originally called "flatfish") were examined and reidentified; residuals are small, poorly preserved specimens.

Bothidae - all specimens examined and reassigned; most were assigned to various paralichthyid genera or to *Bothus* spp.

Citharichthys spp. - all larvae identified to genus or to a species of the genus from 1954 through 1960 were reexamined and identified to species; residuals are small, poorly preserved specimens or those with variable taxonomic characters.

Etropus spp. - larvae of this taxon were originally lumped with *Citharichthys* spp.; present records result from complete reidentification of *Citharichthys* spp.

Hippoglossina spp. - all specimens of this genus (originally called "pigmented bothid") were examined and assigned to *H. stomata*.

Paralichthys spp. - all specimens of this genus were examined and most were assigned to *P. californicus* or *Xystreurus liolepis*.

Syacium ovale - all specimens examined (originally called "spiny-headed bothid").

Xystreureys liolepis - originally misidentified as *Paralichthys californicus*; all specimens reidentified.

Glyptocephalus zachirus - all specimens examined.

Microstomus pacificus - all specimens examined.

Pleuronichthys spp. - all larvae of this genus and constituent species were examined and assigned to species; residuals are small, poorly preserved specimens.

COMPUTER ENTRY AND EDITING

Each taxon on the original identification sheets was given a 3-digit code based on the list of codes in Haight et al. (1979). Taxon codes and counts from these sheets were keypunched by cruise and station, along with pertinent station and tow data and entered into the VAX 11/780 computer at the University of California, San Diego Computing Center. After entries were completed for an entire year, print-out listings of taxa and counts on each station were compared with the original data sheets to eliminate keypunch errors. Next, data in the file were cross-checked with data on an existing file which contained: station and tow data; numbers of eggs of sardine, anchovy, and saury (*Cololabis saira*); numbers of larvae of sardine, anchovy, hake, jack mackerel, and Pacific mackerel; total number of fish eggs; and total number of fish larvae.

Discrepancies in ichthyoplankton data in these two files were corrected by inspecting original records from the sorting laboratory, the original ichthyoplankton identification sheets, and the samples themselves. Station and tow data discrepancies between the two files were corrected by reviewing ships' logs and deck tow sheets, original records from the sorting laboratory, cruise announcements, publications, header information on the ichthyoplankton identification sheets, and station plots generated for each cruise. Eventually all station and tow data were checked by comparing these sources.

The corrected ichthyoplankton data base was then examined statistically and outliers were found and checked as above. Distributional plots were then prepared for each taxon and these were checked by reviewing the data sources mentioned above and by examining archived specimens. A listing of each taxon by station (Table 4) was produced, which became the primary document for subsequent checks. Misidentifications found in geographic outlier checks and other misidentifications and data problems discovered in the course of examining archived samples resulted in several iterations of Table 4. Finally, totals in Table 4 were checked against annual summaries of incidence and abundance (Tables 2 and 3). Ecological analyses of the data (Moser et al.,

1987) were conducted concurrently with editing procedures and provided cross-checks that allowed correction of errors.

SPECIES SUMMARY

Larvae of northern anchovy (*Engraulis mordax*) represented 36% of all fish larvae taken on CalCOFI cruises during 1954 and numbered more than three times as many as Pacific hake (*Merluccius productus*), the next most abundant species (Tables 2, 3). These two species represented about half the total fish larvae taken in 1954. Both species were of relatively high incidence, ranking 2nd and 4th in occurrence. Rockfish larvae (*Sebastes* spp.) ranked third in abundance (11% of total) but first in occurrence, reflecting the widespread distribution of this speciose group. Sardine larvae (*Sardinops sagax*) ranked 4th in abundance (6%) and 8th in occurrence. The next most abundant were three midwater species - two lanternfishes (*Triphoturus mexicanus* and *Stenobrachius leucopsarus*), and a gonostomatid (*Vinciguerrria lucetia*), ranking 5th, 6th, and 7th, respectively. Each represented about 4% of the total fish larvae taken. *Triphoturus mexicanus* ranked 3rd in occurrence, and the latter two species were of identical rank in occurrence as in abundance. The deepsea smelts *Leuroglossus stilbius* and *Bathylagus wesethi* ranked 9th and 10th in abundance but *L. stilbius* larvae were of comparatively higher incidence (ranking 5th in occurrence vs. 10th). These 10 top-ranking taxa contributed 86% of all larvae taken during 1954. The remaining 14% is represented by 117 taxa plus the unidentified and disintegrated categories. Of the 10 taxa, 5 were midwater species, 2 were coastal demersal species or generic groupings, and 3 were coastal pelagic species.

EXPLANATION OF TABLES

Table 1 - This table lists by cruise the pertinent station and tow data for 1954, the volume of water filtered and standard haul factor for each tow, the percent of sample sorted, and the total numbers of fish eggs and larvae. CalCOFI cruises are designated by four digits; the first two indicate the year and the second two the month. Within each cruise the data are listed in order of increasing line and station number (southerly and seaward directions); the order of station occupancy is shown on the station charts (Figures 2-11). Stations are designated by two groups of digits; the first set indicates the line and decimal fraction, and the second set indicates the station on the line. Decimal fractions were not used in 1954. Time is listed as Pacific Standard Time at the start of each tow in 24-hour designation. Methods for determining tow depth, volume of water strained, standard haul factor, and percent sorted were described in the methods section. The values for total fish eggs and larvae represent raw counts (unadjusted for percent sorted or standard haul

factor). Ship codes are as follows: CR, *Crest*; ES, *E. W. Scripps*; HO, *Horizon*; PT, *Paolina T*; and SB, *Spencer F. Baird*.

Table 2 - This table lists pooled occurrences of all larval fish taxa taken during 1954 in ranked order.

Table 3 - This table lists pooled counts of all larval fish taxa taken during 1954 in ranked order. Numbers are adjusted for percent sorted and standard haul factors.

Table 4 - This table gives numbers of fish larvae for each taxon, listed by station and calendar month in which the tow was taken. Counts are adjusted for percent of sample sorted and standard haul factor. The orders are listed in "phylogenetic" sequence modified from Nelson (1984). Subtaxa within each order are listed alphabetically. Page numbers for each taxon are given in the index at the end of the report.

Table 5 - This table is a summary of pooled occurrences of all larval fish taxa taken on CalCOFI surveys from 1951 to 1960. Taxa are listed in the same order as in Table 4.

ACKNOWLEDGMENTS

David Kramer and Robert Counts originally identified larvae from CalCOFI cruises of 1954. Ronald Whyte coded each larval fish taxon or type and Rita Ford entered them into the computer. Cindy Meyer, Larry Zins, and James Ryan provided programming assistance. Dorothy Roll designed the CalCOFI data acquisition system and provided data processing support. Ken Raymond, Roy Allen, and Henry Orr helped with graphics and production of the report. Lorraine Prescott and Diane Forsythe prepared the manuscript for printing. Paul Smith determined statistical outliers, provided assistance during geographical outlier checks and offered helpful suggestions throughout the project. Izadore Barrett, Director of the Southwest Fisheries Center and Reuben Lasker, Chief, Coastal Fisheries Resources Division, SWFC, provided the support critical to the completion of the project. James Thrailkill planned CalCOFI surveys and supervised cruises, data handling, and plankton sorting from 1949 to 1986 and is largely responsible for the high quality of these operations. Without the vision and direction of Elbert Ahlstrom and Elton Sette and the dedicated efforts of the many people who collected, processed, and analyzed the samples, this data base would not exist.

LITERATURE CITED

- Ahlstrom, E. H. 1948. A record of pilchard eggs and larvae collected during surveys made in 1939 to 1941. U.S. Fish Wildl. Serv. SSRF 54, 82 p.
- Ahlstrom, E. H. 1953. Pilchard eggs and larvae and other fish larvae, Pacific Coast - 1951. U.S. Fish Wildl. Serv. SSRF 102, 55 p.
- Ahlstrom, E. H. 1969. Distributional atlas of fish larvae in the California Current region: jack mackerel, *Trachurus symmetricus*, and Pacific hake, *Merluccius productus*, 1951 through 1966. CalCOFI Atlas No. 11:xi + 187 p.
- Ahlstrom, E. H. and D. Kramer. 1956. Sardine eggs and larvae and other fish larvae, Pacific Coast, 1954. U.S. Fish Wildl. Serv. SSRF 186, 79 p.
- Ahlstrom, E. H., H. G. Moser, and E. M. Sandknop. 1978. Distributional atlas of fish larvae in the California Current region: Rockfishes, *Sebastes* spp., 1950 through 1975. CalCOFI Atlas No. 26: xxi + 178 p.
- Ambrose, D. A., R. L. Charter, H. G. Moser, and C. R. Santos Methot. 1987. Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1951. U.S. Dep. Commer., NOAA Tech. Memo., NMFS, SWFC, No. 79, 196 p.
- Haight, C. A., H. G. Moser, and P. E. Smith. 1979. Data entry programs: CalCOFI. II. Fish eggs and larvae identification sheet. National Marine Fisheries Service, Southwest Fisheries Center, La Jolla, Admin. Rept. No. LJ-79-25.
- Kramer, D. 1970. Distributional atlas of fish eggs and larvae in the California current region: Pacific sardine, *Sardinops caerulea* (Girard), 1951 through 1966. CalCOFI Atlas No. 12:vi + 277 p.
- Kramer, D. and E. H. Ahlstrom. 1968. Distributional atlas of fish larvae in the California Current region: Northern anchovy, *Engraulis mordax* (Girard), 1951 through 1965. CalCOFI Atlas No. 9: xi + 269 p.
- Kramer, D., M. Kalin, E. G. Stevens, J. R. Thrailkill, and J. R. Zweifel. 1972. Collecting and processing data on fish eggs and larvae in the California Current Region. NOAA Tech. Rep. NMFS Circ. 370, 38 p.
- McEwen, G. F., M. W. Johnson, and T. R. Folsom. 1954. A statistical analysis of the performance of the Folsom Plankton Sample Splitter, based on test observations. Arch. Meteor. Geophys. Bioklim. Ser. A, 7:502-527.

- Moser, H. G., P. E. Smith, and L. E. Eber. 1987. Larval fish assemblages in the California Current region during 1954-1960, a period of dynamic environmental change. CalCOFI Rep. 28:97-127.
- Nelson, J. S. 1984. Fishes of the world. John Wiley and Sons, N.Y., 523 p.
- Powles, H. and D. F. Markle. 1984. Identification of larvae, p. 31-33. In: Ontogeny and systematics of fishes. H. G. Moser, W. J. Richards, D. M. Cohen, M. P. Fahay, A. W. Kendall, Jr., and S. L. Richardson (eds.). Spec. Publ. No. 1. Amer. Soc. Ichthyol. Herpetol., 760 p.
- Reid, J. L., Jr., R. S. Arthur, and E. B. Bennett, (eds.). 1965. Oceanic observations of the Pacific: 1954. Univ. Calif. Press, Berkeley, 426 p.
- Sandknop, E. M., R. L. Charter, H. G. Moser, and J. D. Ryan. 1987. Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1952. U.S. Dep. Commer., NOAA Tech. Memo., NMFS, SWFC, No. 80, 207 p.
- Smith, P. E. 1971. Distributional atlas of zooplankton volume in the California Current region, 1951 through 1966. CalCOFI Atlas No. 13: xvi + 144 p.
- Smith, P. E. and S. L. Richardson. 1977. Standard techniques for pelagic fish egg and larva surveys. FAO Fish. Tech. Pap. No. 175, 100 p.
- Staff, South Pacific Fishery Investigations. 1953. Zooplankton volumes off the Pacific Coast, 1952. U.S. Fish Wildl. Serv. SSRF 100, 41 p.
- Staff, South Pacific Fishery Investigations. 1955. Zooplankton volumes off the Pacific Coast, 1954. U.S. Fish Wildl. Serv. SSRF 161, 35 p.
- Stevens, E. G., R. L. Charter, H. G. Moser, and M. S. Busby. 1987. Ichthyoplankton and station data for California Cooperative Oceanic Fisheries Investigations survey cruises in 1953. U.S. Dep. Commer., NOAA Tech. Memo., NMFS, SWFC, No. 81, 186 p.
- Thrailkill, J. R. 1956. Relative areal zooplankton abundance off the Pacific coast. U.S. Fish Wildl. Serv. SSRF 188, 85 p.

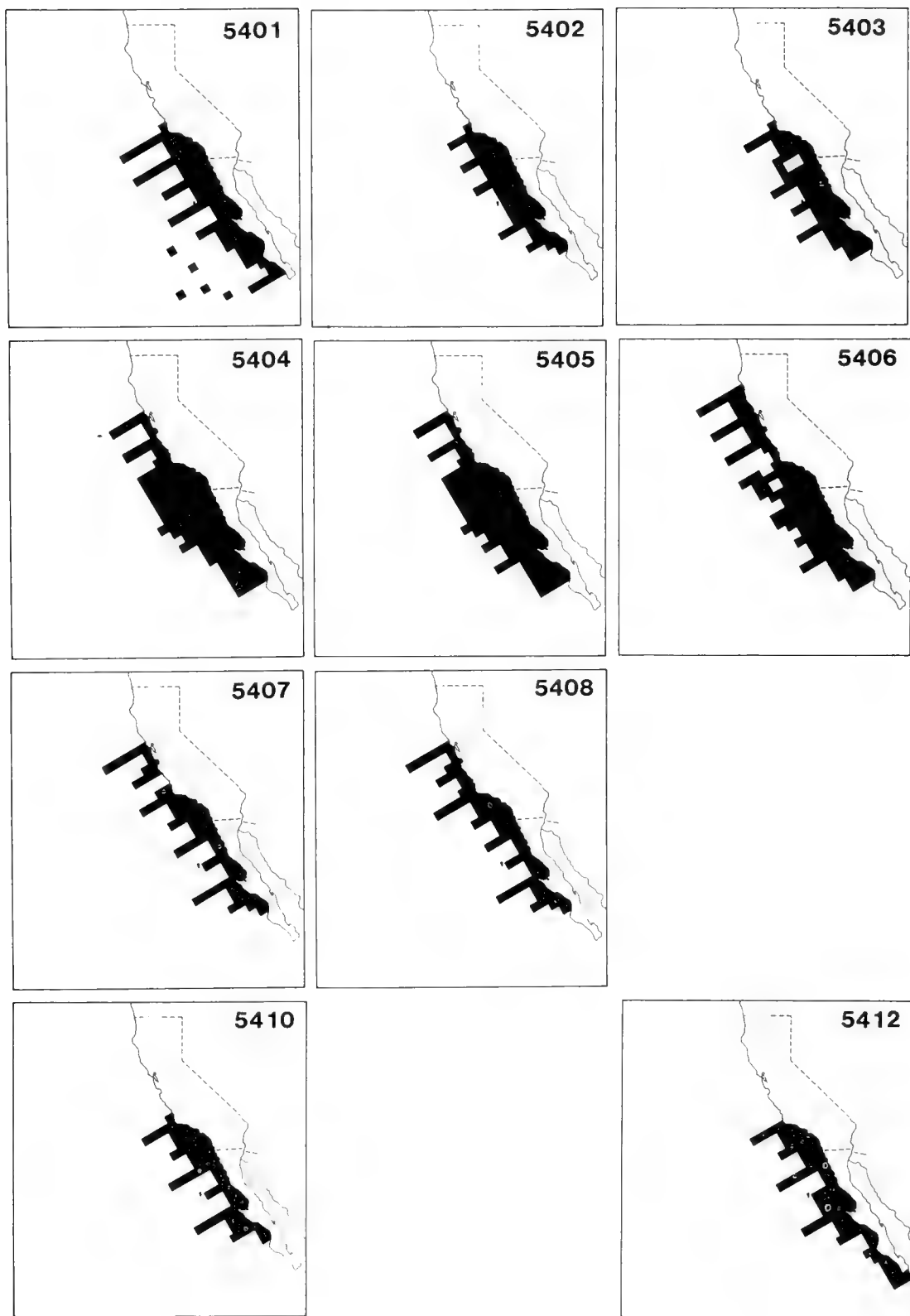


Figure 1. Composite arrangement of diagrammatic charts showing areas sampled on each CalCOFI cruise during 1954.

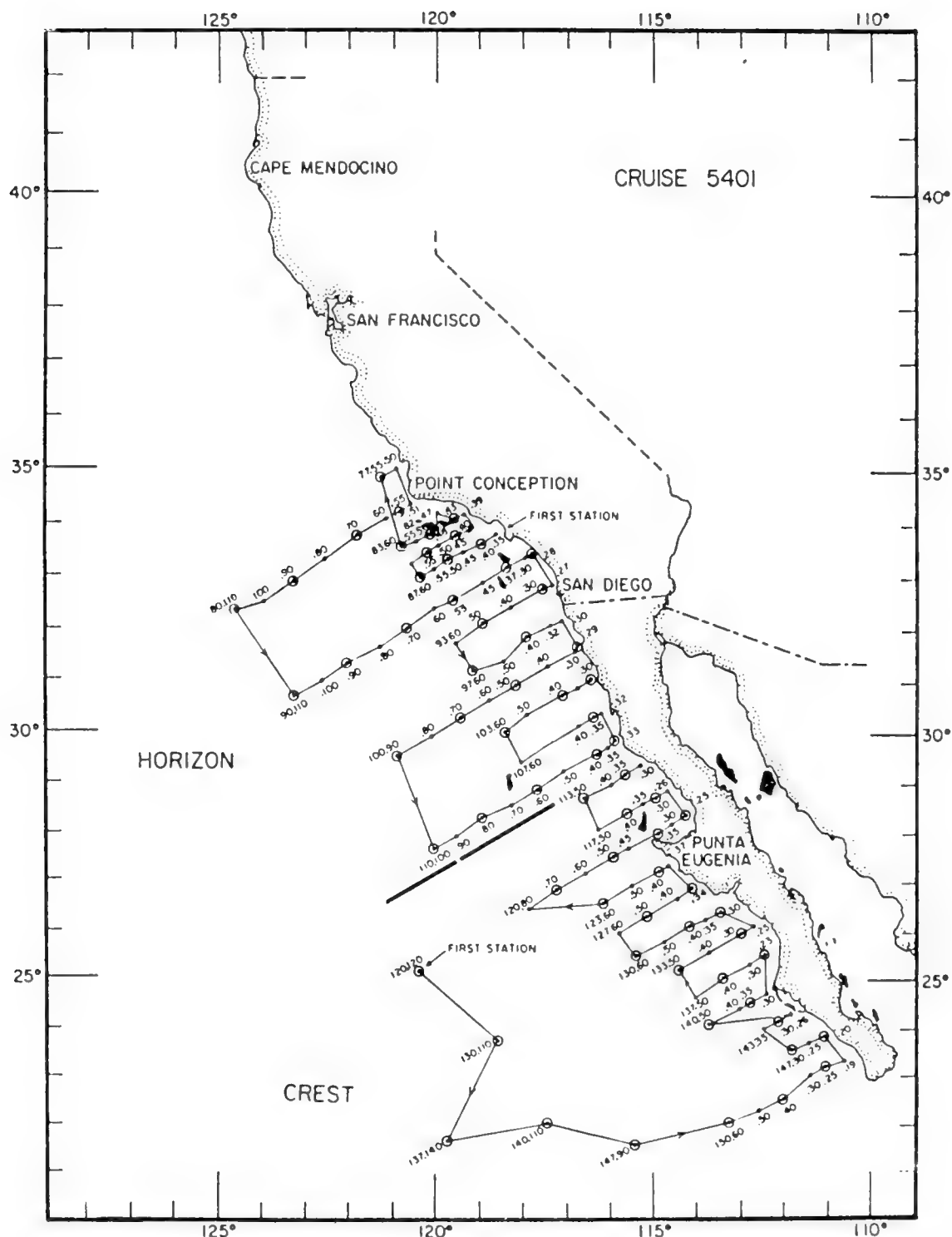


Figure 2. Station pattern for CalCOFI Cruise 5401 showing tracks for each vessel. Stations with plankton tows only are indicated by a dot; those with plankton tows and hydrographic measurements are shown by a dot and circle. Modified from charts in Reid et al., (1965) to include only those stations listed in Table 1 of this report.

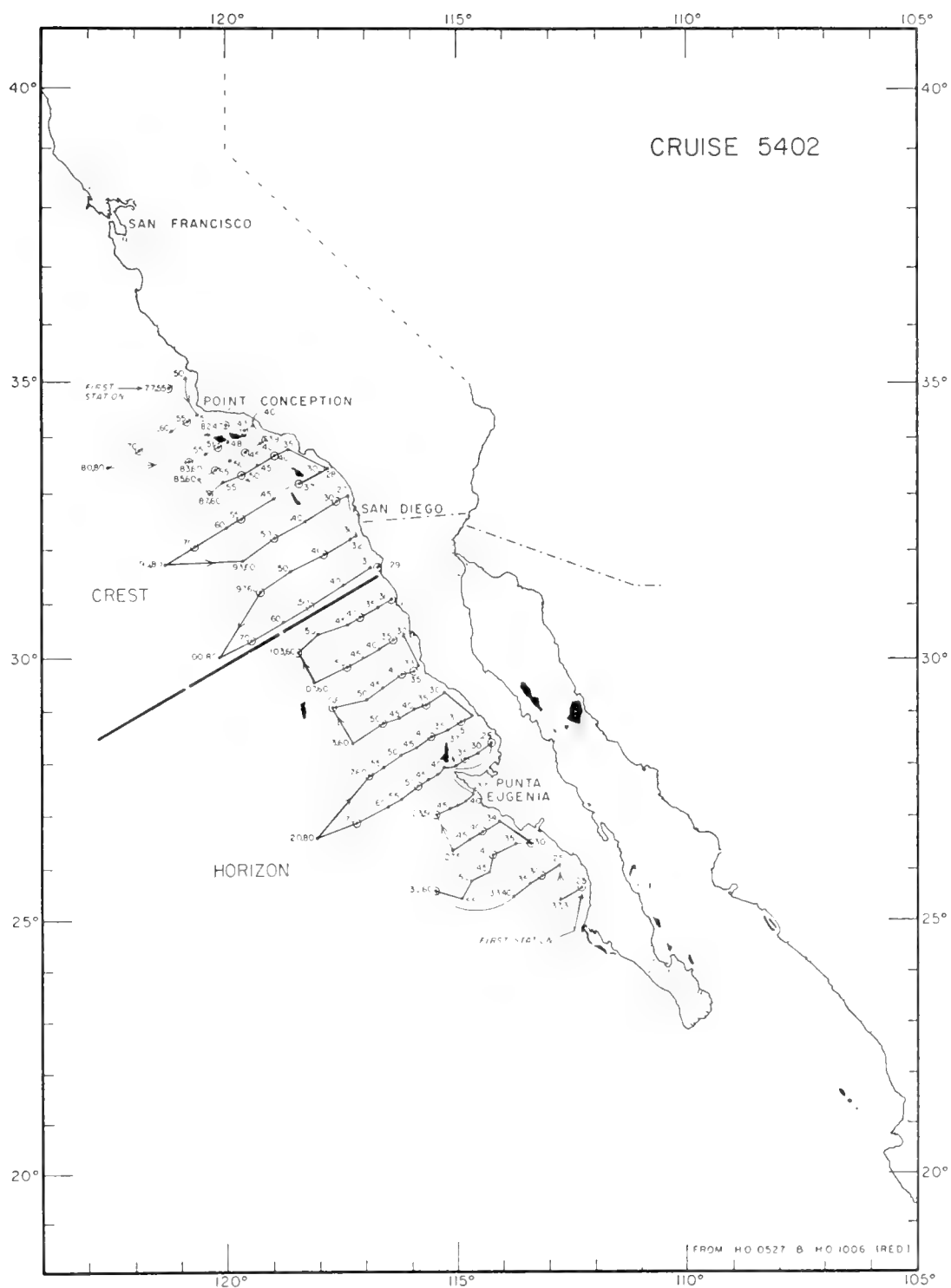


Figure 3. Station pattern for CalCOFI Cruise 5402. Symbols as in Figure 2.

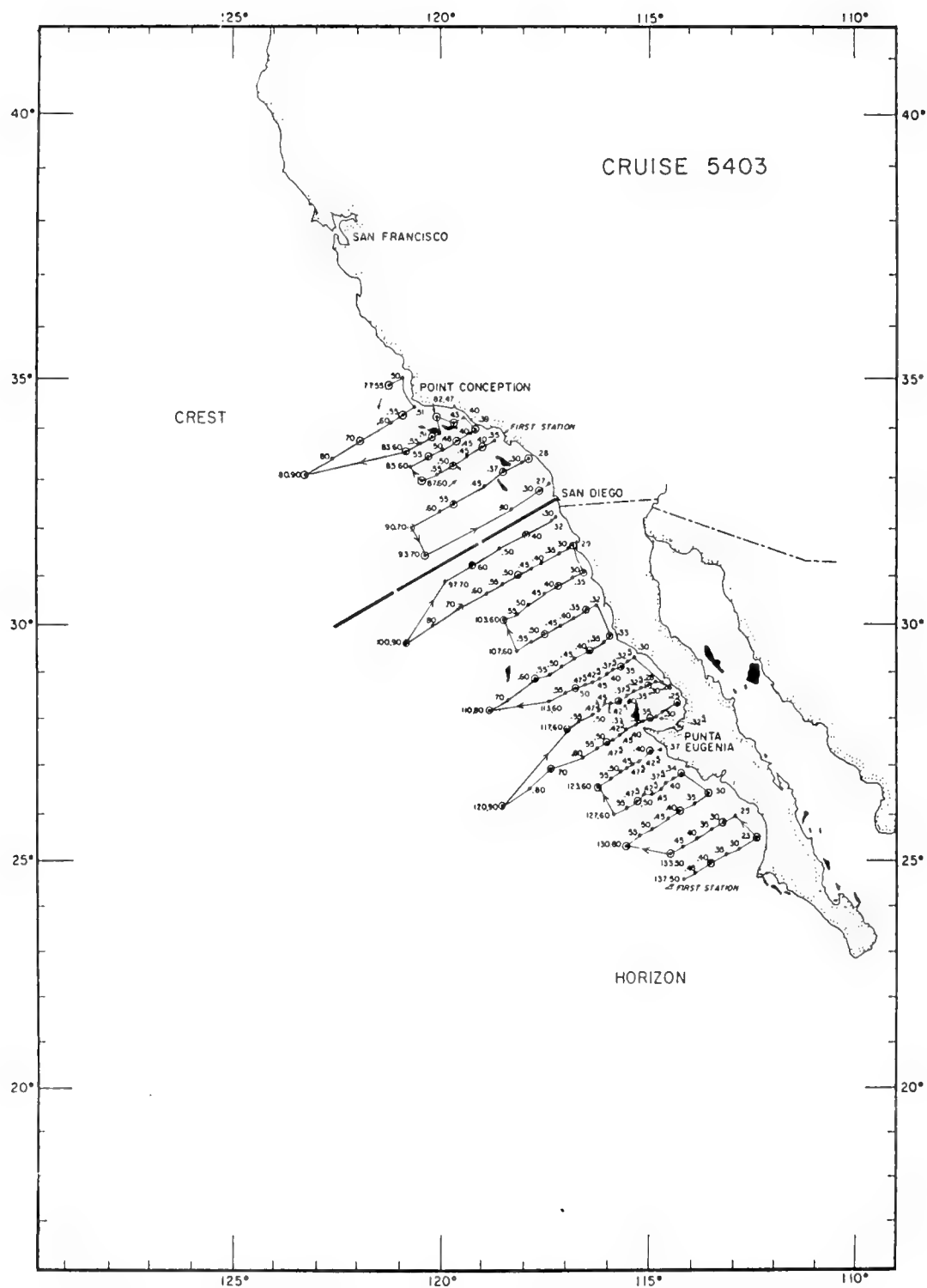


Figure 4. Station pattern for CalCOFI Cruise 5403. Symbols as in Figure 2.

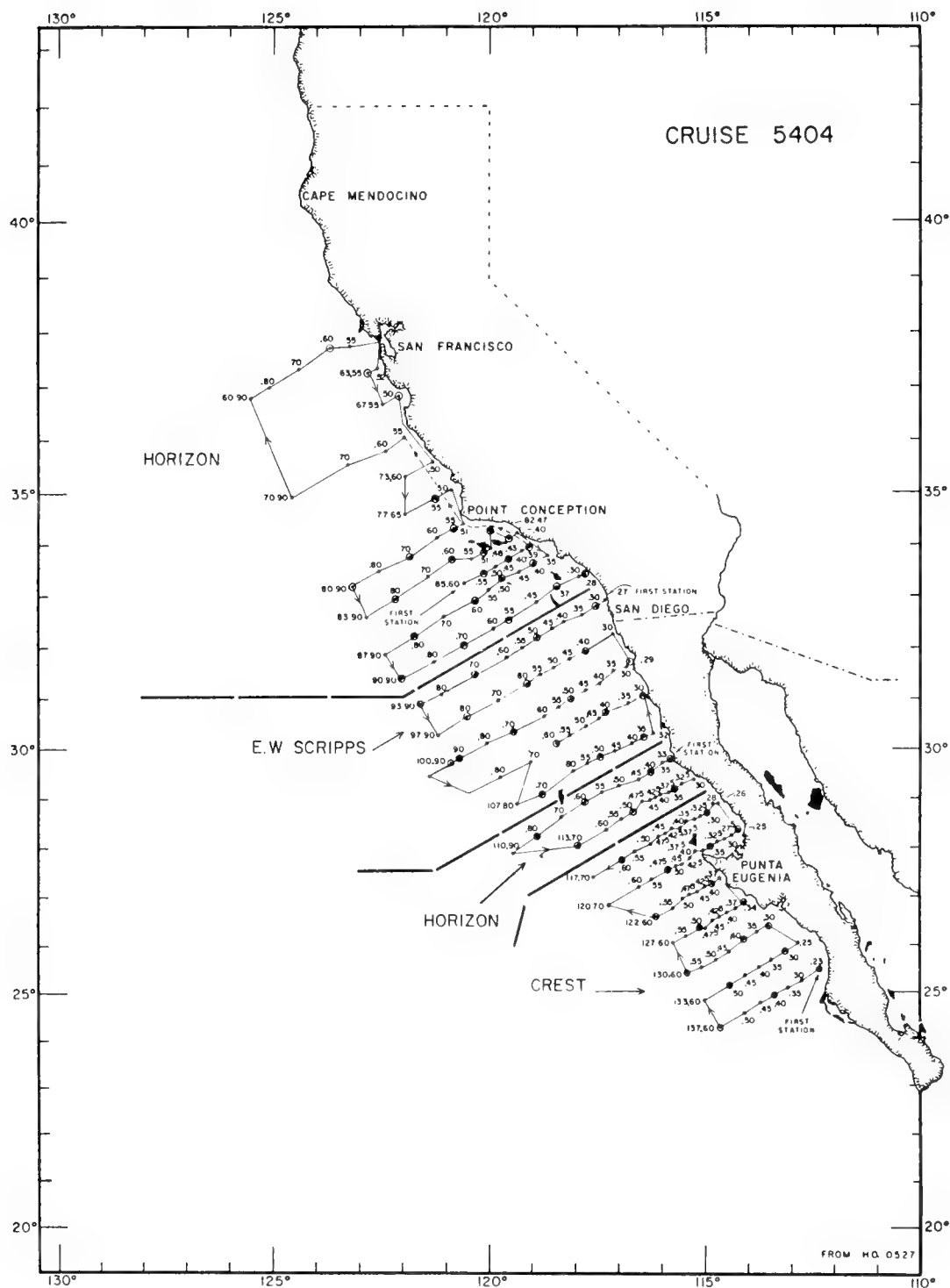


Figure 5. Station pattern for CalCOFI Cruise 5404. Symbols as in Figure 2.

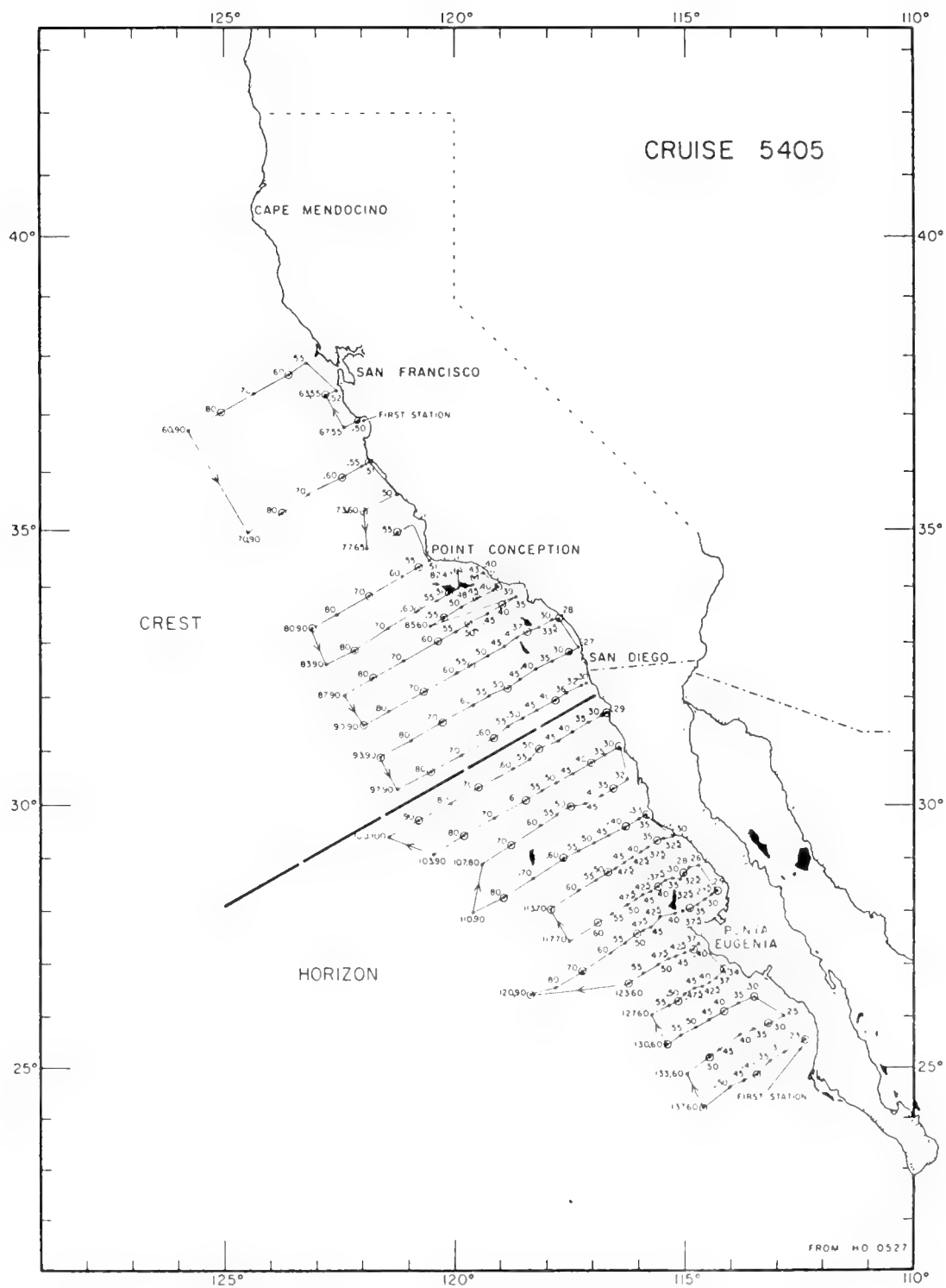


Figure 6. Station pattern for CalCOFI Cruise 5405. Symbols as in Figure 2.

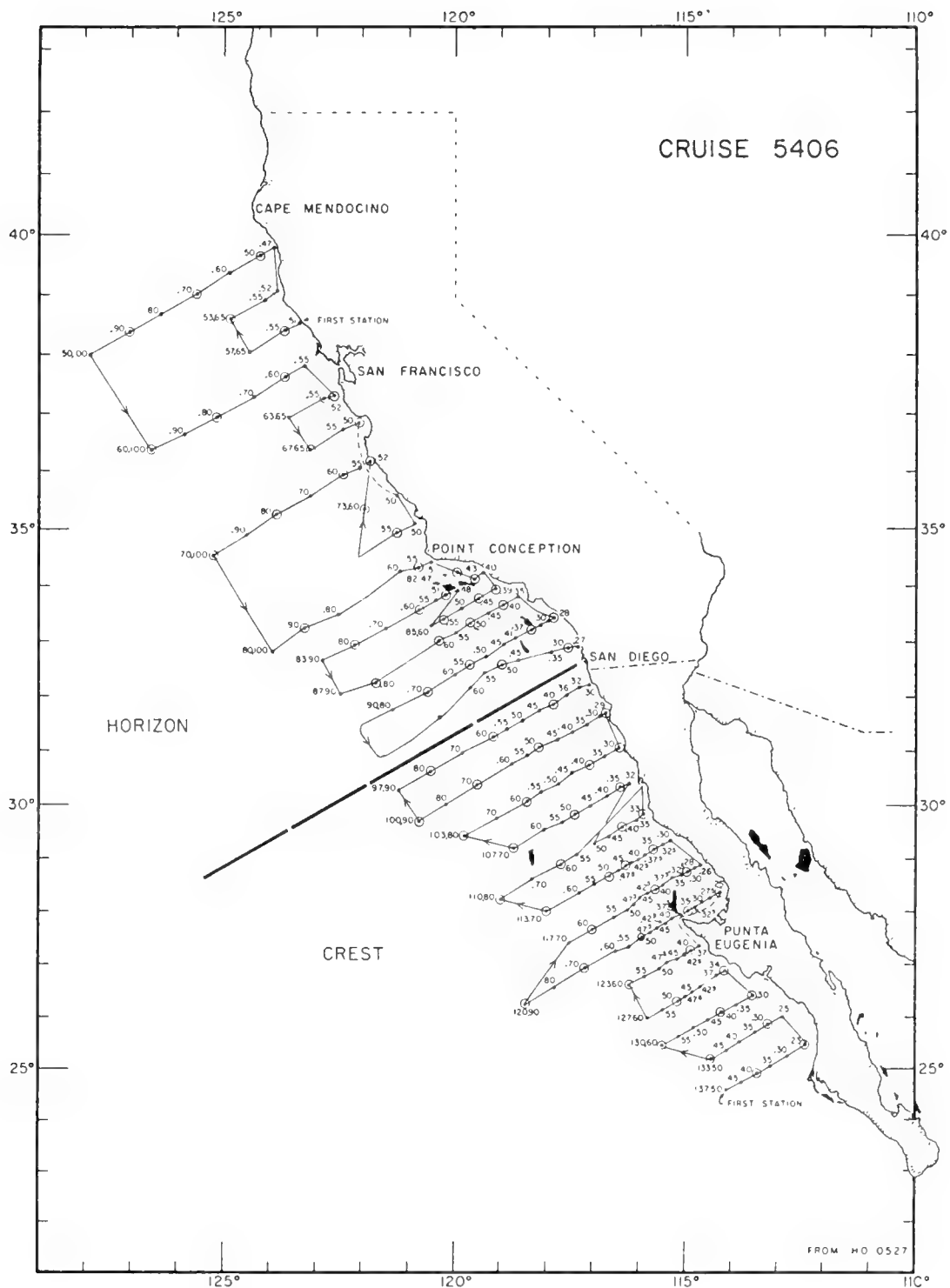


Figure 7. Station pattern for CalCOFI Cruise 5406. Symbols as in Figure 2.

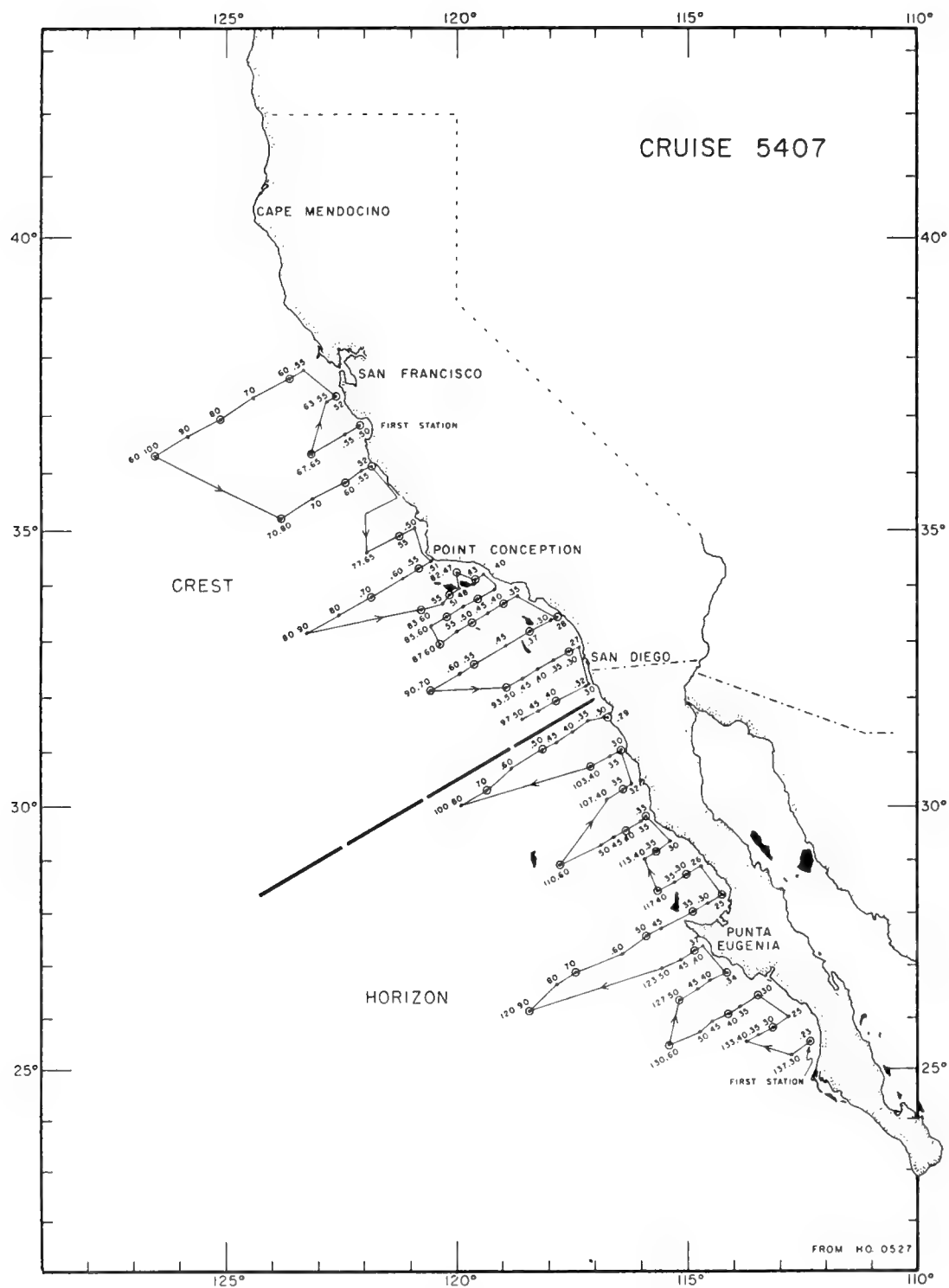


Figure 8. Station pattern for CalCOFI Cruise 5407. Symbols as in Figure 2.

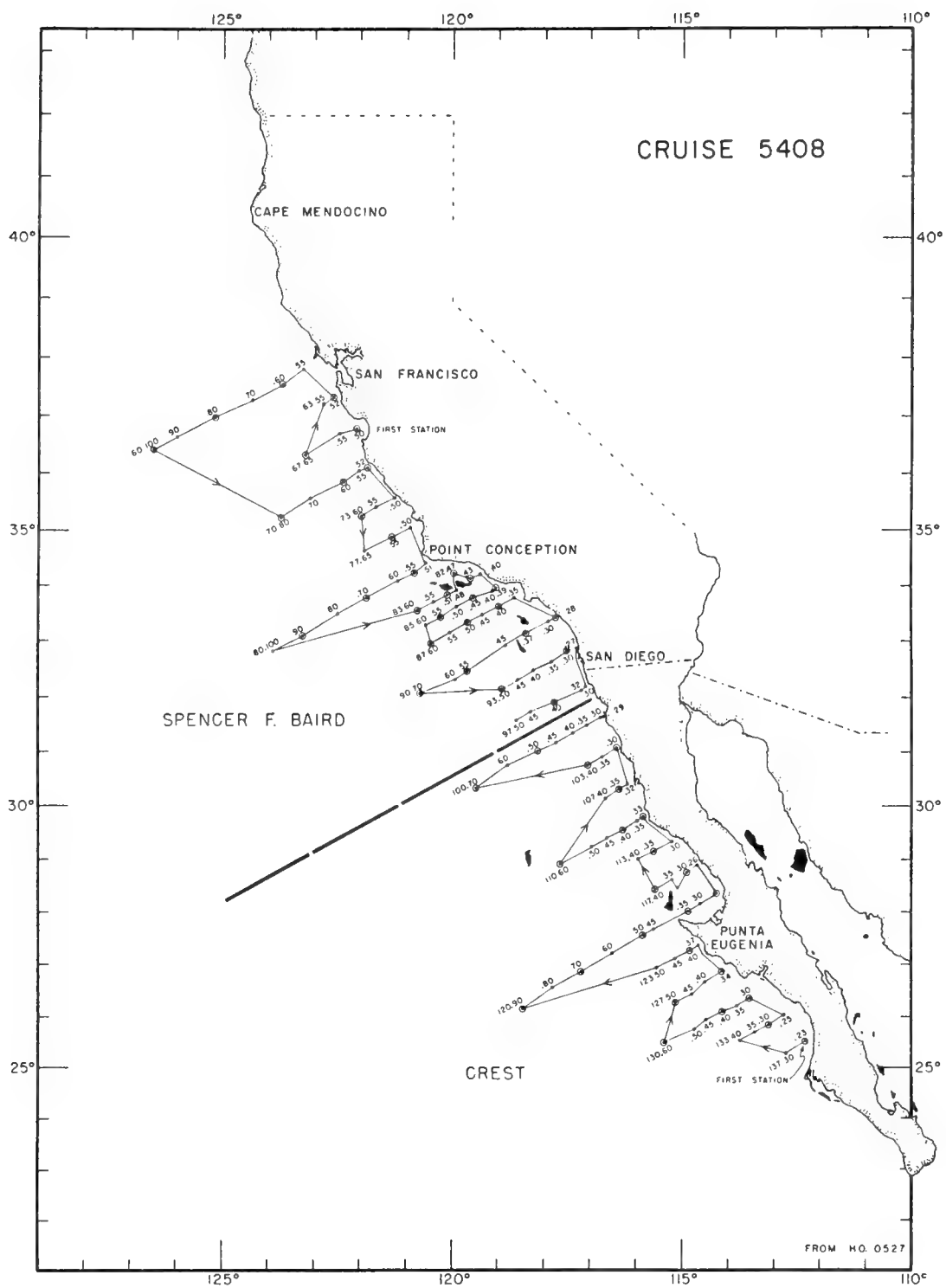


Figure 9. Station pattern for CalCOFI Cruise 5408. Symbols as in Figure 2.

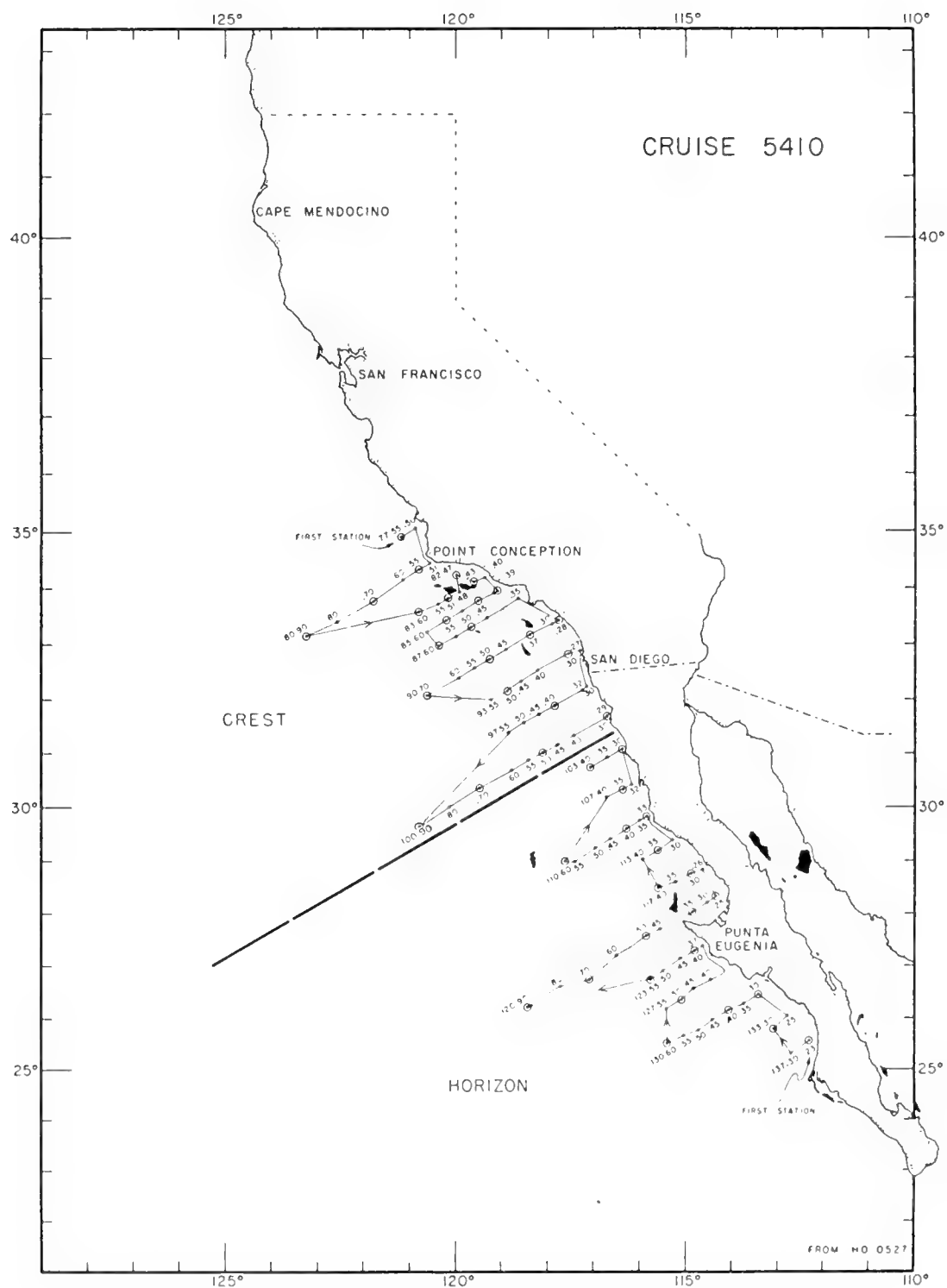


Figure 10. Station pattern for CalCOFI Cruise 5410. Symbols as in Figure 2.

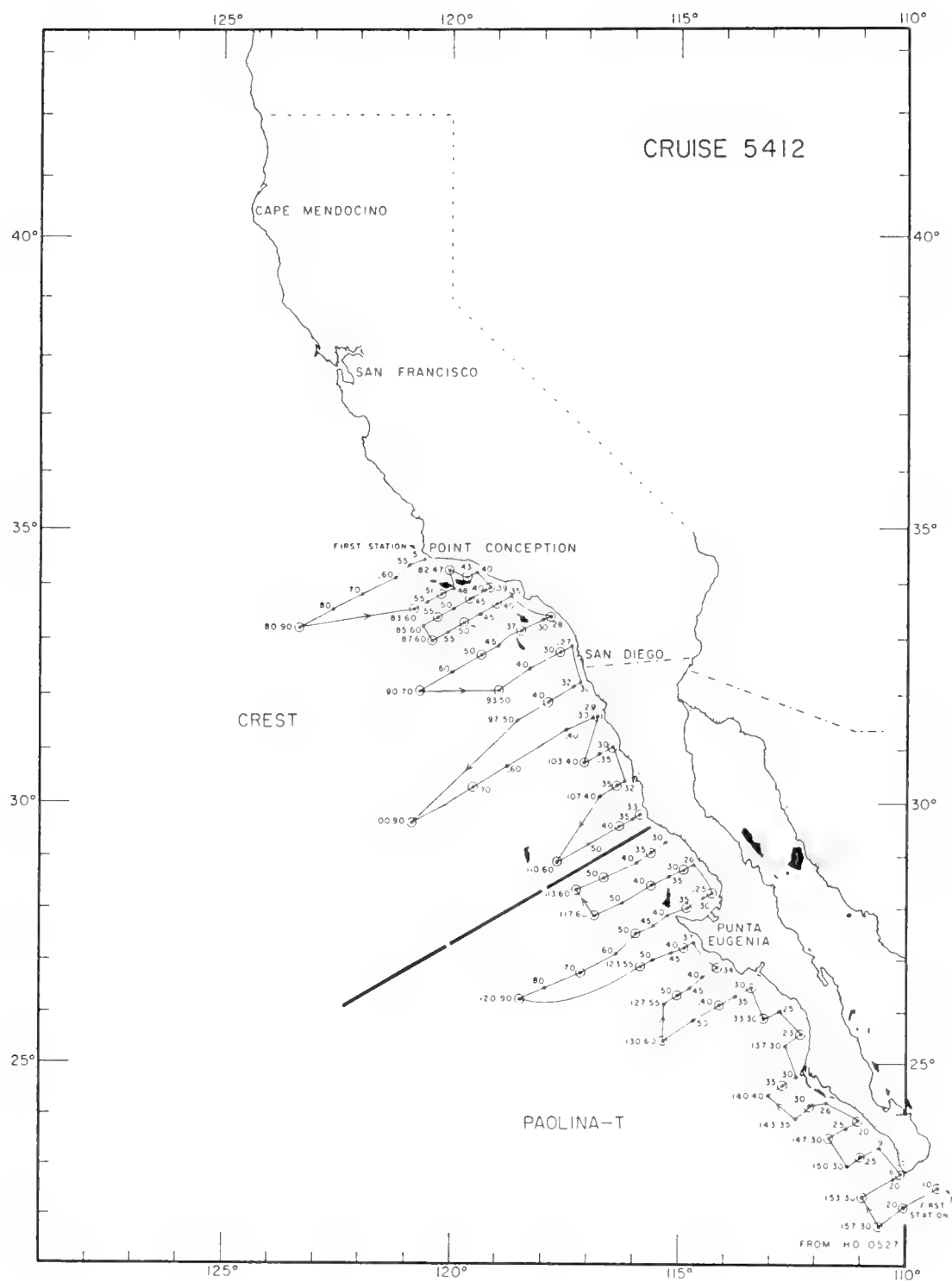


Figure 11. Station pattern for CalCOFI Cruise 5412. Symbols as in Figure 2.

TABLE 1. Station and plankton tow data for CalCOFI cruises in 1954. Counts for fish eggs and larvae are not adjusted for standard haul factor or percent of sample sorted.

CalCOFI Cruise 5401

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
77.0	50.0	35 03.4	120 53.2	HO	54 01 09	2327	96	430	2.23	100.0	544	5
77.0	55.0	34 54.2	121 12.6	HO	54 01 09	2056	133	543	2.45	100.0	335	76
80.0	51.0	34 26.5	120 32.2	HO	54 01 10	0413	32	218	1.46	100.0	410	5
80.0	55.0	34 17.6	120 49.0	HO	54 01 10	0736	118	578	2.05	100.0	81	144
80.0	60.0	34 09.6	121 08.7	HO	54 01 10	0951	144	495	2.91	100.0	18	112
80.0	70.0	33 48.4	121 49.5	HO	54 01 10	1606	154	433	3.55	100.0	20	4
80.0	80.0	33 21.5	122 31.5	HO	54 01 10	2101	120	550	2.19	100.0	179	12
80.0	90.0	32 57.2	123 13.5	HO	54 01 11	0306	141	526	2.69	100.0	14	6
80.0	100.0	32 32.0	123 56.0	HO	54 01 11	0701	121	562	2.15	100.0	8	4
80.0	110.0	32 25.2	124 35.0	HO	54 01 11	1326	144	525	2.75	100.0	3	6
82.0	47.0	34 14.3	119 58.8	HO	54 01 08	2216	128	547	2.34	100.0	35	845
83.0	40.0	34 13.6	119 22.0	HO	54 01 08	1704	11	196	0.56	25.0	341	989
83.0	43.0	34 08.0	119 34.0	HO	54 01 08	1906	144	525	2.75	100.0	209	104
83.0	48.0	33 57.8	119 54.5	HO	54 01 09	0043	60	241	2.50	100.0	227	217
83.0	51.0	33 51.6	120 08.5	HO	54 01 09	0326	126	478	2.63	100.0	259	616
83.0	55.0	33 40.8	120 27.6	HO	54 01 09	0601	129	533	2.42	100.0	232	238
83.0	60.0	33 33.0	120 45.7	HO	54 01 09	0926	132	557	2.37	100.0	98	468
85.0	40.0	33 56.8	119 10.8	HO	54 01 08	1325	116	557	2.08	100.0	321	1575
85.0	45.0	33 47.0	119 31.6	HO	54 01 08	1101	144	528	2.72	100.0	173	398
85.0	50.0	33 27.5	119 54.8	HO	54 01 08	0701	138	504	2.74	100.0	276	317
85.0	55.0	33 27.5	120 12.5	HO	54 01 08	0356	145	543	2.67	100.0	53	16
85.0	60.0	33 16.5	120 33.5	HO	54 01 08	0006	124	575	2.16	100.0	64	48
87.0	35.0	33 50.0	118 37.4	HO	54 01 05	2301	88	614	1.43	100.0	276	949
87.0	40.0	33 39.5	118 59.5	HO	54 01 06	0256	95	621	1.53	100.0	466	749
87.0	45.0	33 28.5	119 21.4	HO	54 01 06	0541	117	543	2.16	100.0	630	866
87.0	50.0	33 20.5	119 40.5	HO	54 01 07	1726	125	559	2.23	100.0	187	528
87.0	55.0	33 10.2	120 00.5	HO	54 01 07	2106	126	551	2.29	100.0	86	1090
87.0	60.0	33 01.0	120 20.5	HO	54 01 07	0026	110	554	1.95	100.0	40	45
90.0	28.0	33 28.5	117 46.3	HO	54 01 14	0026	116	553	2.10	100.0	167	593
90.0	30.0	33 24.5	117 55.6	HO	54 01 13	2256	116	553	2.10	100.0	897	1021
90.0	37.0	33 12.0	118 21.8	HO	54 01 13	1936	101	611	1.66	50.0	213	2618
90.0	45.0	32 54.4	118 56.0	HO	54 01 13	1441	113	559	2.01	100.0	126	2569
90.0	53.0	32 35.0	119 35.5	HO	54 01 13	1106	142	489	2.90	100.0	84	568
90.0	60.0	32 27.2	120 01.5	HO	54 01 13	0631	98	604	1.62	100.0	170	281
90.0	70.0	32 03.8	120 39.5	HO	54 01 13	0035	125	547	2.29	100.0	14	2
90.0	80.0	31 44.0	121 19.0	HO	54 01 12	1901	139	518	2.68	100.0	40	0
90.0	90.0	31 23.5	122 00.0	HO	54 01 12	1436	101	564	1.79	100.0	2	5
90.0	100.0	31 03.5	122 37.0	HO	54 01 12	0826	115	660	1.74	100.0	1	2
90.0	110.0	30 45.0	123 15.0	HO	54 01 12	0346	145	525	2.76	100.0	4	0
93.0	27.0	32 56.8	117 19.0	HO	54 01 14	0513	45	336	1.33	100.0	264	51
93.0	30.0	32 49.5	117 31.5	HO	54 01 14	0731	119	510	2.34	100.0	146	1086
93.0	40.0	32 28.0	118 14.2	HO	54 01 14	1226	127	492	2.58	100.0	185	1964
93.0	50.0	32 10.0	118 56.0	HO	54 01 14	1806	132	494	2.68	100.0	71	317
93.0	60.0	31 48.5	119 32.0	HO	54 01 14	2230	107	564	1.89	50.0	77	366

TABLE 1. (cont.)

CalCOFI Cruise 5401

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
97.0	30.0	32 14.9	117 08.7	HO	54 01 15	1914	22	174	1.25	100.0	229	301
97.0	32.0	32 11.5	117 18.8	HO	54 01 15	1751	129	495	2.60	100.0	859	1448
97.0	40.0	31 54.5	117 52.2	HO	54 01 15	1336	133	474	2.79	100.0	55	886
97.0	50.0	31 28.0	118 28.0	HO	54 01 15	0821	107	560	1.90	100.0	160	564
97.0	60.0	31 14.5	119 07.5	HO	54 01 15	0341	123	507	2.43	100.0	29	3
100.0	29.0	31 41.9	116 43.5	HO	54 01 15	2357	127	474	2.68	100.0	103	763
100.0	30.0	31 40.5	116 47.0	HO	54 01 16	0041	117	497	2.35	100.0	190	239
100.0	40.0	31 21.0	117 28.0	HO	54 01 16	0501	123	520	2.37	100.0	344	211
100.0	50.0	30 59.0	118 10.0	HO	54 01 16	1031	93	622	1.50	100.0	76	244
100.0	60.0	30 39.0	118 47.0	HO	54 01 16	1501	122	509	2.39	100.0	3	0
100.0	70.0	30 19.5	119 27.5	HO	54 01 16	2056	130	470	2.77	100.0	2	6
100.0	80.0	29 59.0	120 07.0	HO	54 01 17	0141	105	593	1.78	100.0	5	2
100.0	90.0	29 33.8	120 54.0	HO	54 01 17	0746	124	493	2.51	100.0	4	3
103.0	30.0	31 05.5	116 26.0	HO	54 01 22	0108	71	241	2.94	100.0	110	308
103.0	35.0	30 55.0	116 45.0	HO	54 01 21	2211	126	530	2.37	100.0	355	349
103.0	40.0	30 45.0	117 06.0	HO	54 01 20	2046	122	509	2.41	100.0	41	67
103.0	50.0	30 23.0	117 51.0	HO	54 01 20	1511	133	508	2.61	100.0	4	8
107.0	32.0	30 26.9	118 25.0	HO	54 01 20	1121	111	577	1.93	100.0	6	2
107.0	35.0	30 20.4	116 22.2	HO	54 01 19	1151	129	492	2.61	100.0	47	987
107.0	40.0	29 26.5	118 02.0	HO	54 01 20	0441	115	568	2.89	100.0	9	51
110.0	33.0	29 51.2	115 51.4	HO	54 01 19	0718	54	276	1.76	100.0	15	8
110.0	35.0	29 46.5	116 00.6	HO	54 01 19	0541	108	556	2.03	100.0	43	21
110.0	40.0	29 36.8	116 18.3	HO	54 01 19	0306	124	492	1.97	100.0	187	249
110.0	50.0	29 14.5	117 01.0	HO	54 01 18	2126	123	495	2.52	100.0	2	28
110.0	60.0	28 56.0	117 39.5	HO	54 01 18	1636	114	535	2.48	100.0	11	1
110.0	70.0	28 35.0	118 19.5	HO	54 01 18	1051	105	563	2.13	100.0	5	1
110.0	80.0	28 19.5	118 54.0	HO	54 01 18	0646	128	474	1.87	100.0	14	11
110.0	90.0	27 57.8	119 35.0	HO	54 01 18	0116	113	539	2.69	100.0	2	10
113.0	30.0	29 22.5	120 05.5	HO	54 01 17	2126	121	516	2.09	100.0	6	10
113.0	35.0	29 12.0	115 17.5	CR	54 01 20	0644	34	124	2.34	100.0	14	12
113.0	40.0	29 02.0	115 39.0	CR	54 01 20	0431	139	467	2.74	100.0	23	79
113.0	50.0	28 42.0	115 58.5	CR	54 01 20	0126	128	519	2.97	100.0	176	17120
117.0	26.0	28 56.0	116 37.0	CR	54 01 19	2126	146	447	2.46	100.0	34	56
117.0	30.0	28 46.0	114 41.0	CR	54 01 19	0433	63	257	3.27	100.0	10	0
117.0	35.0	28 38.0	114 55.0	CR	54 01 19	0627	98	338	2.45	100.0	99	10
117.0	40.0	28 28.5	115 16.0	CR	54 01 19	0901	125	474	2.91	100.0	19	41
117.0	50.0	28 08.0	115 35.0	CR	54 01 19	1156	137	465	2.63	100.0	12	60
120.0	25.0	28 23.0	116 15.0	CR	54 01 19	1606	137	449	2.95	100.0	1	0
120.0	30.0	28 13.0	114 14.0	CR	54 01 19	0044	37	160	3.04	100.0	4	123
120.0	35.0	28 03.0	114 34.0	CR	54 01 18	2218	65	245	2.34	100.0	50	17
120.0	45.0	27 43.5	115 54.0	CR	54 01 18	2013	65	246	2.65	50.0	34	359
120.0	50.0	27 33.5	115 33.5	CR	54 01 18	1541	129	481	2.64	100.0	174	20
120.0	50.0	27 33.5	115 52.0	CR	54 01 18	1316	137	463	2.68	100.0	91	29

TABLE 1. (cont.)

CalCOFI Cruise 5401

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
120.0	60.0	27 13.0	116 31.5	CR	54 01 18	0756	136	461	2.94	100.0	13	20
120.0	70.0	26 54.0	117 14.0	CR	54 01 18	0316	137	453	3.02	100.0	22	131
120.0	80.0	26 32.0	117 51.0	CR	54 01 17	2141	125	493	2.55	100.0	144	103
120.0	120.0	25 12.5	120 22.0	CR	54 01 07	1416	147	459	3.21	100.0	10	36
123.0	37.0	27 23.5	114 41.0	CR	54 01 16	1743	63	267	2.35	100.0	792	933
123.0	40.0	27 18.0	114 51.5	CR	54 01 17	0321	141	450	3.12	100.0	175	77
123.0	50.0	26 57.5	115 30.0	CR	54 01 17	0741	131	482	2.71	100.0	8	5
123.0	60.0	26 37.0	116 08.5	CR	54 01 17	1241	146	405	3.61	100.0	21	18
127.0	34.0	26 55.0	114 05.5	CR	54 01 16	1318	71	237	2.98	100.0	11	379
127.0	40.0	26 44.5	114 25.0	CR	54 01 16	1046	137	450	3.04	100.0	57	811
127.0	50.0	26 22.0	115 10.5	CR	54 01 16	0546	155	460	3.37	100.0	248	12
127.0	60.0	26 03.5	115 46.5	CR	54 01 16	0036	144	465	3.10	100.0	35	16
130.0	30.0	26 26.5	113 29.0	CR	54 01 15	0633	72	241	3.01	100.0	71	137
130.0	35.0	26 19.0	113 49.0	CR	54 01 15	0836	128	463	2.77	25.0	182	563
130.0	40.0	26 11.5	114 08.5	CR	54 01 15	1141	148	435	3.40	100.0	19	73
130.0	50.0	25 50.0	114 46.0	CR	54 01 15	1536	126	477	2.65	100.0	14	15
130.0	60.0	25 31.0	115 25.0	CR	54 01 15	2021	148	419	3.52	100.0	41	56
130.0	110.0	23 48.0	118 33.5	CR	54 01 08	0426	142	460	3.08	100.0	49	13
133.0	25.0	26 04.5	112 47.0	CR	54 01 15	0118	66	262	2.52	100.0	2591	197
133.0	30.0	25 55.0	113 07.0	CR	54 01 14	2256	146	432	3.38	100.0	403	460
133.0	40.0	25 34.5	113 45.5	CR	54 01 14	1821	128	508	2.51	100.0	29	44
133.0	50.0	25 13.0	114 27.0	CR	54 01 14	1336	145	442	3.28	100.0	12	39
137.0	23.0	25 34.0	112 18.5	CR	54 01 13	1938	70	247	2.84	100.0	538	78
137.0	30.0	25 21.0	112 46.0	CR	54 01 13	2136	135	453	2.97	100.0	602	108
137.0	40.0	25 02.5	113 25.0	CR	54 01 14	0341	141	455	3.09	100.0	26	21
137.0	50.0	24 39.0	114 02.5	CR	54 01 14	0801	133	480	2.77	100.0	22	73
137.0	140.0	21 40.0	119 41.0	CR	54 01 08	2006	137	451	3.04	100.0	78	62
140.0	30.0	24 46.0	112 24.0	CR	54 01 13	1352	123	423	2.91	100.0	66	263
140.0	35.0	24 35.5	112 43.0	CR	54 01 13	1141	127	488	2.61	100.0	57	6656
140.0	40.0	24 27.0	112 59.0	CR	54 01 13	0851	131	474	2.77	100.0	5	85
140.0	50.0	24 08.5	113 41.0	CR	54 01 13	0441	143	446	3.06	100.0	31	13
140.0	110.0	22 06.0	117 25.0	CR	54 01 09	1041	141	445	3.16	100.0	33	19
143.0	26.0	24 21.5	111 49.0	CR	54 01 12	0748	67	249	3.20	100.0	301	510
143.0	30.0	24 13.0	112 04.5	CR	54 01 12	0601	141	442	3.20	100.0	356	883
143.0	35.0	24 02.0	112 26.0	CR	54 01 12	0246	138	471	2.92	100.0	182	78
147.0	20.0	23 55.5	111 06.5	CR	54 01 11	1626	130	465	2.80	100.0	331	42
147.0	25.0	23 46.5	111 22.5	CR	54 01 11	1836	135	439	3.08	50.0	1964	218
147.0	30.0	23 38.0	111 47.0	CR	54 01 11	2211	139	444	3.12	100.0	741	47
147.0	90.0	21 36.0	115 25.0	CR	54 01 10	0126	139	436	3.18	100.0	65	18
150.0	19.0	23 23.5	110 39.0	CR	54 01 11	1126	138	487	2.84	100.0	548	309
150.0	25.0	23 13.0	111 02.0	CR	54 01 11	0831	148	442	3.36	100.0	61	38
150.0	30.0	23 04.5	111 22.0	CR	54 01 11	0526	141	454	3.11	100.0	77	43
150.0	40.0	22 43.0	111 58.0	CR	54 01 11	0126	136	488	2.78	100.0	27	70
150.0	50.0	22 21.0	112 35.0	CR	54 01 10	2006	131	489	2.69	100.0	105	73
150.0	60.0	22 05.0	113 17.0	CR	54 01 10	1526	136	465	2.93	100.0	16	8

TABLE 1. (cont.)

CalCOFI Cruise 5402

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
77.0	50.0	35 03.5	120 52.0	CR	54 02 03	1746	146	464	3.15	100.0	168	38
77.0	55.0	34 54.5	121 13.0	CR	54 02 03	1522	133	482	2.76	100.0	354	91
80.0	51.0	34 26.0	120 33.5	CR	54 02 03	2221	125	504	2.48	100.0	824	30
80.0	55.0	34 19.0	120 48.0	CR	54 02 04	0126	134	472	2.83	100.0	469	1177
80.0	60.0	34 09.0	121 09.0	CR	54 02 04	0336	148	444	3.33	100.0	184	267
80.0	70.0	33 49.0	121 50.0	CR	54 02 04	0911	143	416	3.43	100.0	59	21
80.0	80.0	33 29.0	122 32.0	CR	54 02 04	1311	140	472	2.96	100.0	39	7
82.0	47.0	34 15.0	119 58.0	CR	54 02 05	0851	136	460	2.97	100.0	144	1175
83.0	40.0	34 14.0	119 22.0	CR	54 02 05	1434	17	97	1.71	100.0	341	360
83.0	43.0	34 08.0	119 34.0	CR	54 02 05	1311	134	473	2.84	100.0	169	589
83.0	48.0	33 58.0	119 55.0	CR	54 02 05	0546	126	459	2.74	100.0	275	302
83.0	51.0	33 52.5	120 08.5	CR	54 02 05	0356	133	471	2.83	100.0	458	138
83.0	55.0	33 44.0	120 24.5	CR	54 02 05	0056	137	552	2.48	100.0	316	502
83.0	60.0	33 34.0	120 45.0	CR	54 02 04	2234	147	385	3.82	12.5	3	9
85.0	39.0	34 00.5	119 04.0	CR	54 02 05	1848	79	262	3.00	50.0	408	77
85.0	40.0	33 57.0	119 10.5	CR	54 02 05	1946	131	495	2.65	100.0	267	1088
85.0	45.0	33 46.5	119 33.0	CR	54 02 06	0056	129	519	2.48	100.0	842	1439
85.0	50.0	33 36.5	119 53.0	CR	54 02 06	1406	124	419	2.96	100.0	219	334
85.0	55.0	33 26.5	120 12.5	CR	54 02 06	1826	146	429	3.40	100.0	379	803
85.0	60.0	33 17.0	120 33.5	CR	54 02 06	2056	145	434	3.34	100.0	187	361
87.0	35.0	33 50.0	118 37.0	CR	54 02 07	2141	130	475	2.73	100.0	831	1485
87.0	40.0	33 40.5	118 58.5	CR	54 02 07	1906	136	469	2.89	50.0	396	671
87.0	45.0	33 30.0	119 19.0	CR	54 02 07	1541	124	470	2.63	100.0	319	170
87.0	50.0	33 20.0	119 39.0	CR	54 02 07	1328	70	244	2.87	100.0	995	136
87.0	55.0	33 12.0	120 03.0	CR	54 02 07	0246	136	455	2.99	25.0	2	76
87.0	60.0	33 00.0	120 21.0	CR	54 02 07	0027	128	477	2.68	100.0	19	73
90.0	28.0	33 28.5	117 47.0	CR	54 02 08	0348	55	220	2.50	50.0	331	44
90.0	30.0	33 24.5	117 55.0	CR	54 02 08	0506	131	478	2.73	50.0	315	959
90.0	37.0	33 11.0	118 23.5	CR	54 02 09	1246	125	504	2.48	100.0	478	2067
90.0	45.0	32 54.5	118 56.0	CR	54 02 09	1616	139	458	3.03	50.0	117	1964
90.0	55.0	32 35.0	119 37.0	CR	54 02 09	2246	142	450	3.16	50.0	32	51
90.0	60.0	32 25.0	119 57.0	CR	54 02 10	0121	124	490	2.53	100.0	81	151
90.0	70.0	32 05.0	120 38.5	CR	54 02 10	0706	141	430	3.28	100.0	8	4
90.0	80.0	31 45.0	121 19.0	CR	54 02 10	1341	133	482	2.76	100.0	15	41
93.0	27.0	32 57.0	117 18.5	CR	54 02 11	1628	58	283	2.05	100.0	524	327
93.0	30.0	32 52.0	117 33.5	CR	54 02 11	1441	138	486	2.83	100.0	235	1392
93.0	40.0	32 30.0	118 12.5	CR	54 02 11	0921	129	489	2.65	100.0	124	1240
93.0	50.0	32 13.0	118 55.0	CR	54 02 11	0411	125	483	2.58	25.0	3	10
93.0	60.0	31 49.0	119 34.0	CR	54 02 10	2226	134	526	2.54	100.0	95	72
97.0	30.0	32 15.5	117 10.0	CR	54 02 11	2038	50	218	2.31	100.0	735	110
97.0	32.0	32 11.5	117 17.5	CR	54 02 11	2146	125	500	2.51	100.0	218	687
97.0	40.0	31 56.0	117 50.0	CR	54 02 12	0211	134	475	2.81	100.0	74	157
97.0	50.0	31 38.0	118 32.0	CR	54 02 12	0641	135	482	2.81	100.0	29	118
97.0	60.0	31 14.5	119 12.0	CR	54 02 12	1141	132	464	2.85	25.0	1	9
100.0	29.0	31 42.0	116 43.5	CR	54 02 13	2333	73	221	3.30	100.0	435	75

TABLE 1. (cont.)

CalCOFI Cruise 5402

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
100.0	30.0	31 40.5	116 47.0	CR	54 02 13	2211	139	525	2.64	100.0	176	121
100.0	40.0	31 21.5	117 26.5	CR	54 02 13	1726	134	510	2.62	100.0	67	63
100.0	50.0	30 57.0	118 06.0	CR	54 02 13	1256	137	464	2.96	100.0	24	82
100.0	60.0	30 39.0	118 45.0	CR	54 02 13	0731	145	463	3.13	100.0	9	285
100.0	70.0	30 20.0	119 26.0	CR	54 02 13	0231	141	445	3.16	100.0	111	61
100.0	80.0	30 01.0	120 07.0	CR	54 02 12	2026	130	498	2.61	100.0	102	260
103.0	30.0	31 06.0	116 25.5	HO	54 02 15	1918	62	273	2.25	100.0	804	200
103.0	35.0	30 56.0	116 44.5	HO	54 02 15	1636	153	419	3.64	50.0	0	24
103.0	40.0	30 46.0	117 05.0	HO	54 02 15	1351	156	442	3.54	100.0	0	3
103.0	45.0	30 37.0	117 22.5	HO	54 02 15	1051	140	458	3.05	50.0	2	6
103.0	50.0	30 27.5	118 00.0	HO	54 02 15	0701	141	454	3.11	100.0	12	102
103.0	60.0	30 07.0	118 26.0	HO	54 02 15	0236	148	451	3.29	100.0	18	115
107.0	32.0	30 25.0	116 11.5	HO	54 02 14	0151	134	480	2.79	100.0	608	148
107.0	35.0	30 21.0	116 22.0	HO	54 02 14	0426	126	493	2.56	100.0	2	11
107.0	40.0	30 10.0	116 43.5	HO	54 02 14	0711	148	426	3.48	100.0	13	16
107.0	45.0	30 00.0	117 03.0	HO	54 02 14	0951	135	456	2.96	100.0	2	36
107.0	50.0	29 50.5	117 24.0	HO	54 02 14	1326	145	455	3.19	25.0	76	368
107.0	60.0	29 32.0	118 05.0	HO	54 02 14	1736	141	451	3.12	100.0	11	83
110.0	33.0	29 51.0	115 52.5	HO	54 02 13	2128	89	263	3.40	100.0	334	104
110.0	35.0	29 46.5	115 58.5	HO	54 02 13	1951	118	527	2.24	50.0	84	243
110.0	40.0	29 42.0	116 10.5	HO	54 02 13	1801	128	470	2.72	100.0	4	20
110.0	45.0	29 27.0	116 38.0	HO	54 02 13	1421	138	446	3.09	100.0	29	29
110.0	50.0	29 15.0	116 59.0	HO	54 02 13	1136	143	424	3.37	100.0	85	32
110.0	60.0	29 04.0	117 43.0	HO	54 02 13	0706	142	452	3.14	100.0	797	25
113.0	30.0	29 21.0	115 20.0	HO	54 02 12	0428	58	206	2.79	100.0	196	4
113.0	35.0	29 09.5	115 42.0	HO	54 02 12	0801	127	484	2.62	25.0	101	760
113.0	40.0	29 01.0	115 57.5	HO	54 02 12	1016	138	475	2.90	100.0	67	100
113.0	45.0	28 52.0	116 19.0	HO	54 02 12	1256	151	416	3.62	100.0	28	46
113.0	50.0	28 47.0	116 38.0	HO	54 02 12	1816	145	432	3.35	100.0	18	195
113.0	60.0	28 23.0	117 17.0	HO	54 02 12	2246	136	475	2.87	100.0	68	171
117.0	30.0	28 47.5	114 56.0	HO	54 02 11	0918	68	240	2.84	100.0	185	134
117.0	35.0	28 37.0	115 16.5	HO	54 02 11	0601	129	466	2.78	50.0	64	605
117.0	40.0	28 28.0	115 36.5	HO	54 02 11	0256	126	448	2.81	100.0	30	153
117.0	45.0	28 19.5	115 55.0	HO	54 02 10	2331	127	458	2.77	100.0	57	170
117.0	50.0	28 08.0	116 15.0	HO	54 02 10	2051	137	428	3.21	100.0	137	18
117.0	55.0	27 57.5	116 35.0	HO	54 02 10	1811	128	456	2.81	100.0	3	48
117.0	60.0	27 46.0	116 55.0	HO	54 02 10	1546	135	451	3.00	100.0	2	2
120.0	25.0	28 22.5	114 15.0	HO	54 02 08	1959	35	171	2.06	100.0	97	1601
120.0	30.0	28 12.5	114 34.0	HO	54 02 08	2238	60	259	2.32	100.0	35	455
120.0	35.0	28 03.0	114 51.0	HO	54 02 09	0028	57	282	2.03	100.0	32	78
120.0	37.5	27 59.0	115 03.0	HO	54 02 09	0238	52	260	2.00	50.0	23	640
120.0	40.0	27 56.0	115 20.0	HO	54 02 09	0428	63	262	2.42	100.0	659	526
120.0	42.5	27 49.0	115 24.0	HO	54 02 09	0541	138	443	3.12	50.0	175	536
120.0	45.0	27 42.5	115 34.0	HO	54 02 09	0721	130	443	2.93	25.0	61	462
120.0	50.0	27 32.5	115 51.0	HO	54 02 09	1051	136	440	3.09	100.0	64	107

TABLE 1. (cont.)

CalCOFI Cruise 5402												
Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
120.0	55.0	27 19.5	116 14.0	HO	54 02 09	1341	138	454	3.03	100.0	384	38
120.0	60.0	27 10.0	116 31.0	HO	54 02 09	1611	119	504	2.37	100.0	83	108
120.0	70.0	26 52.0	117 10.5	HO	54 02 10	0031	127	464	2.74	100.0	194	2
120.0	80.0	26 35.0	118 03.0	HO	54 02 10	0451	137	449	3.06	100.0	45	87
123.0	37.0	27 23.8	114 41.4	HO	54 02 08	0148	60	259	2.29	25.0	59	2790
123.0	40.0	27 17.4	114 52.8	HO	54 02 07	2351	115	482	2.40	25.0	94	573
123.0	42.0	27 13.0	115 01.4	HO	54 02 07	2211	139	450	3.08	100.0	378	55
123.0	45.0	27 08.5	115 11.0	HO	54 02 07	2036	143	473	3.03	100.0	486	30
123.0	50.0	27 01.5	115 29.5	HO	54 02 07	1756	118	542	2.17	100.0	96	34
127.0	34.0	26 55.0	114 06.5	HO	54 02 07	0333	58	294	1.97	50.0	96	1376
127.0	40.0	26 41.5	114 30.5	HO	54 02 07	0726	148	423	3.49	100.0	12	60
127.0	45.0	26 33.5	114 48.5	HO	54 02 07	0956	136	446	3.06	100.0	21	173
127.0	50.0	26 21.5	115 11.5	HO	54 02 07	1231	124	513	2.42	100.0	17	140
130.0	30.0	26 30.0	113 27.8	HO	54 02 06	2318	68	245	2.79	100.0	173	55
130.0	35.0	26 28.0	113 47.8	HO	54 02 06	2032	94	300	3.15	100.0	292	1018
130.0	40.0	26 19.5	114 16.0	HO	54 02 06	1706	142	469	3.04	100.0	16	102
130.0	45.0	25 56.5	114 22.0	HO	54 02 06	1306	117	539	2.17	100.0	9	24
130.0	50.0	25 46.5	114 44.0	HO	54 02 06	1056	137	470	2.92	100.0	8	4
130.0	55.0	25 28.0	114 58.0	HO	54 02 06	0741	132	458	2.89	100.0	24	178
130.0	60.0	25 33.0	115 29.0	HO	54 02 06	0446	107	569	1.88	100.0	38	98
133.0	25.0	26 05.0	112 48.5	HO	54 02 05	0103	61	273	2.24	50.0	480	21
133.0	30.0	25 53.0	113 11.0	HO	54 02 05	0428	140	491	1.17	100.0	144	227
133.0	35.0	25 41.5	113 29.5	HO	54 02 05	0711	124	503	2.47	100.0	51	348
137.0	40.0	25 29.0	113 49.0	HO	54 02 05	1001	124	514	2.41	100.0	37	206
137.0	23.0	25 37.5	112 20.5	HO	54 02 04	1638	60	306	1.96	100.0	52	15
137.0	30.0	25 25.0	112 44.0	HO	54 02 04	2001	133	485	2.74	100.0	735	28

TABLE 1. (cont.)

CalCOFI Cruise 5403												
Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
77.0	50.0	35 03.5	120 52.5	CR	54 03 09	1021	140	491	2.86	100.0	23	175
77.0	55.0	34 54.5	121 10.5	CR	54 03 09	1306	150	491	2.86	100.0	68	7
80.0	51.0	34 27.5	120 32.5	CR	54 03 09	0618	66	281	2.35	100.0	72	8
80.0	55.0	34 20.0	120 48.5	CR	54 03 09	0416	140	505	2.77	50.0	9	6
80.0	60.0	34 10.0	121 09.0	CR	54 03 09	0121	141	491	2.86	50.0	38	112
80.0	70.0	33 49.0	121 51.0	CR	54 03 08	2141	133	496	2.68	50.0	39	81
80.0	80.0	33 29.0	122 32.0	CR	54 03 08	1641	136	527	2.60	100.0	28	52
80.0	90.0	33 09.5	123 12.0	CR	54 03 08	1256	137	640	2.14	100.0	39	64
82.0	47.0	34 16.0	119 58.0	CR	54 03 07	1316	126	542	2.33	25.0	68	831
83.0	40.0	34 14.0	119 22.0	CR	54 03 07	0819	18	119	1.51	50.0	261	966
83.0	43.0	34 09.0	119 35.0	CR	54 03 07	1016	133	537	2.47	100.0	297	148
83.0	48.0	33 58.5	119 55.5	CR	54 03 07	1726	139	516	2.69	100.0	460	128
83.0	51.0	33 52.0	120 08.5	CR	54 03 07	1936	153	468	3.28	100.0	322	93
83.0	55.0	33 44.0	120 24.5	CR	54 03 07	2131	141	564	2.50	50.0	95	25
83.0	60.0	33 34.0	120 46.0	CR	54 03 08	0101	142	513	2.76	100.0	100	343
85.0	39.0	34 00.0	119 04.0	CR	54 03 07	0556	134	562	2.38	100.0	1249	552
85.0	40.0	33 57.0	119 10.5	CR	54 03 07	0401	135	528	2.56	50.0	503	641
85.0	45.0	33 48.0	119 31.5	CR	54 03 07	0146	132	566	2.34	100.0	637	1280
85.0	50.0	33 37.0	119 52.5	CR	54 03 06	2206	151	455	3.32	100.0	437	196
85.0	55.0	33 30.0	120 15.0	CR	54 03 06	1936	160	499	3.22	50.0	14	15
85.0	60.0	33 18.5	120 39.0	CR	54 03 06	1546	157	495	3.17	100.0	94	90
87.0	35.0	33 49.5	118 38.5	CR	54 03 05	2320	137	610	2.25	100.0	1902	1792
87.0	40.0	33 40.0	118 58.5	CR	54 03 06	0220	141	541	2.60	50.0	359	618
87.0	45.0	33 30.0	119 19.0	CR	54 03 06	0501	156	458	3.39	50.0	284	588
87.0	50.0	33 20.0	119 39.0	CR	54 03 06	0748	71	249	2.87	100.0	93	78
87.0	55.0	33 10.0	120 00.5	CR	54 03 06	1016	144	501	2.88	100.0	89	262
87.0	60.0	33 02.5	120 24.0	CR	54 03 06	1330	164	485	3.38	50.0	618	61
90.0	28.0	33 28.5	117 47.0	CR	54 03 10	0547	89	350	2.56	100.0	266	420
90.0	30.0	33 24.5	117 55.0	CR	54 03 10	0646	143	508	2.80	50.0	156	145
90.0	37.0	33 11.0	118 23.5	CR	54 03 10	1036	150	523	2.87	50.0	22	403
90.0	45.0	32 56.5	118 54.5	CR	54 03 10	1406	141	531	2.66	50.0	75	765
90.0	55.0	32 35.0	119 36.5	CR	54 03 10	2035	146	494	2.96	50.0	14	8
90.0	60.0	32 25.0	119 57.5	CR	54 03 10	2316	135	589	2.29	100.0	41	14
90.0	70.0	32 04.0	120 40.0	CR	54 03 11	0540	138	591	2.34	100.0	11	10
93.0	27.0	32 56.0	117 19.0	CR	54 03 12	0837	97	392	2.48	50.0	246	582
93.0	30.0	32 50.0	117 31.5	CR	54 03 12	0651	148	480	3.09	100.0	34	203
93.0	40.0	32 26.5	118 11.0	CR	54 03 12	0106	142	545	2.61	100.0	275	508
93.0	70.0	31 29.0	120 19.5	CR	54 03 11	1116	122	622	1.96	100.0	5	15
97.0	30.0	32 15.4	117 08.8	HO	54 03 18	1829	28	114	2.50	100.0	146	52
97.0	32.0	32 11.5	117 17.0	HO	54 03 18	1711	97	634	1.54	100.0	476	149
97.0	40.0	31 57.8	117 51.0	HO	54 03 18	1246	130	519	2.50	100.0	12	21
97.0	50.0	31 37.0	118 30.1	HO	54 03 18	0834	144	496	2.90	100.0	33	38
97.0	60.0	31 16.5	119 09.2	HO	54 03 18	0351	122	524	2.33	50.0	69	321
97.0	70.0	30 55.0	119 50.5	HO	54 03 17	2316	147	429	3.44	50.0	308	372
100.0	29.0	31 42.1	116 44.5	HO	54 03 16	0553	20	405	0.49	100.0	202	111

TABLE 1. (cont.)

CalCOFI Cruise 5403

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
100.0	30.0	31 40.5	116 46.4	HO	54 03 16	0642	116	562	2.07	100.0	112	91
100.0	35.0	31 31.8	117 04.3	HO	54 03 16	0844	138	500	2.76	100.0	41	8
100.0	40.0	31 19.7	117 29.2	HO	54 03 16	1106	130	538	2.42	100.0	36	220
100.0	45.0	31 11.8	117 46.0	HO	54 03 16	1304	133	505	2.64	50.0	239	1040
100.0	50.0	31 03.4	118 02.8	HO	54 03 16	1511	125	514	2.43	50.0	228	254
100.0	55.0	30 52.8	118 26.0	HO	54 03 16	1851	111	580	1.92	50.0	131	284
100.0	60.0	30 40.9	118 48.0	HO	54 03 16	2126	126	502	2.52	50.0	29	154
100.0	70.0	30 24.3	119 24.7	HO	54 03 17	0151	122	544	2.25	100.0	74	915
100.0	80.0	30 01.0	120 07.8	HO	54 03 17	0804	129	506	2.56	100.0	80	609
100.0	90.0	29 39.1	120 46.8	HO	54 03 17	1336	125	537	2.32	100.0	63	130
103.0	30.0	31 06.8	116 27.5	HO	54 03 16	0114	52	227	2.28	100.0	90	220
103.0	35.0	30 59.3	116 46.6	HO	54 03 15	2256	120	517	2.33	100.0	48	416
103.0	40.0	30 49.1	117 06.8	HO	54 03 15	1940	129	502	2.58	100.0	93	369
103.0	45.0	30 39.0	117 25.9	HO	54 03 15	1731	142	482	2.95	100.0	67	169
103.0	50.0	30 26.2	117 48.0	HO	54 03 15	1514	131	538	2.43	100.0	145	602
103.0	55.0	30 15.9	118 08.3	HO	54 03 15	1251	137	486	2.81	50.0	331	5242
103.0	60.0	30 09.8	118 23.2	HO	54 03 15	1016	132	513	2.57	100.0	46	157
107.0	32.0	30 25.5	116 10.5	HO	54 03 14	1456	109	610	1.79	100.0	229	186
107.0	35.0	30 19.4	116 23.0	HO	54 03 14	1555	100	602	1.67	100.0	40	187
107.0	40.0	30 09.8	116 43.7	HO	54 03 14	2014	139	489	2.85	100.0	23	133
107.0	45.0	30 00.0	117 04.0	HO	54 03 14	2236	126	523	2.40	100.0	187	186
107.0	50.0	29 50.0	117 24.2	HO	54 03 15	0106	127	522	2.43	100.0	34	9
107.0	55.0	29 41.0	117 44.0	HO	54 03 15	0421	100	605	1.66	100.0	75	95
107.0	60.0	29 28.9	118 05.6	HO	54 03 15	0606	124	523	2.36	100.0	53	243
110.0	33.0	29 50.7	115 52.6	HO	54 03 14	1008	61	270	2.25	100.0	25	170
110.0	35.0	29 43.1	115 59.7	HO	54 03 14	0829	130	481	2.71	100.0	39	316
110.0	40.0	29 30.0	116 25.7	HO	54 03 14	0341	114	571	2.00	100.0	33	755
110.0	45.0	29 20.0	116 43.0	HO	54 03 14	0106	141	467	3.01	100.0	35	13
110.0	50.0	29 10.5	117 01.2	HO	54 03 13	2241	149	461	3.22	100.0	156	78
110.0	55.0	29 00.1	117 19.0	HO	54 03 13	2041	146	462	3.16	100.0	115	195
110.0	60.0	28 56.0	117 39.2	HO	54 03 13	1646	84	687	1.22	100.0	27	74
110.0	70.0	28 25.6	118 18.2	HO	54 03 13	1136	130	447	2.73	100.0	141	199
110.0	80.0	28 14.8	118 45.5	HO	54 03 13	0626	123	526	2.34	100.0	83	277
113.0	30.0	29 22.5	115 17.5	HO	54 03 12	0203	55	227	2.44	50.0	46	26
113.0	32.5	29 17.0	115 28.7	HO	54 03 12	0323	73	271	2.68	50.0	65	21
113.0	35.0	29 11.1	115 39.7	HO	54 03 12	0446	93	657	1.42	100.0	36	721
113.0	37.5	29 05.7	115 47.9	HO	54 03 12	0801	129	494	2.54	100.0	63	141
113.0	40.0	29 00.9	115 57.7	HO	54 03 12	0950	143	452	3.17	100.0	14	25
113.0	42.5	28 55.9	116 07.5	HO	54 03 12	1110	127	448	2.84	100.0	27	22
113.0	45.0	28 50.9	116 17.3	HO	54 03 12	1220	135	474	2.84	100.0	49	40
113.0	47.5	28 47.6	116 28.2	HO	54 03 12	1356	138	491	2.80	100.0	190	538
113.0	50.0	28 44.9	116 42.9	HO	54 03 12	1541	111	571	1.95	100.0	77	1144
113.0	55.0	28 35.3	116 58.5	HO	54 03 12	1856	147	439	3.40	100.0	79	328
113.0	60.0	28 24.9	117 18.2	HO	54 03 12	2141	151	436	3.46	100.0	126	796
117.0	26.0	28 57.0	114 40.7	HO	54 03 11	1859	33	269	1.21	100.0	94	641

TABLE 1. (cont.)

CalCOFI Cruise 5403

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
117.0	28.0	28 51.8	114 47.2	HO	54 03 11	1759	37	274	1.33	100.0	42	17
117.0	30.0	28 47.0	114 55.2	HO	54 03 11	1608	55	262	2.10	100.0	306	917
117.0	32.5	28 42.5	115 05.7	HO	54 03 11	1435	76	245	3.11	100.0	24	371
117.0	35.0	28 37.8	115 16.0	HO	54 03 11	1301	130	561	2.32	100.0	299	1287
117.0	37.5	28 32.8	115 26.2	HO	54 03 11	1118	116	562	2.06	100.0	99	534
117.0	40.0	28 27.6	115 35.8	HO	54 03 11	0856	102	613	1.66	100.0	270	431
117.0	42.5	28 23.0	115 47.7	HO	54 03 11	0716	127	538	2.36	100.0	102	295
117.0	45.0	28 22.4	115 57.4	HO	54 03 11	0526	118	560	2.10	100.0	8	2
117.0	47.5	28 16.1	116 07.6	HO	54 03 11	0326	138	493	2.80	100.0	12	19
117.0	50.0	28 11.2	116 16.6	HO	54 03 11	0156	128	546	2.34	100.0	17	44
117.0	55.0	27 59.0	116 35.3	HO	54 03 10	2116	148	540	2.74	100.0	86	148
117.0	60.0	27 47.5	116 54.0	HO	54 03 10	1946	120	546	2.20	100.0	73	1087
120.0	25.0	28 22.7	114 14.9	HO	54 03 08	1753	30	275	1.10	100.0	110	683
120.0	30.0	28 11.9	114 34.5	HO	54 03 08	2045	60	304	1.97	100.0	285	824
120.0	32.5	28 07.2	114 43.7	HO	54 03 08	2153	52	339	1.53	100.0	978	1261
120.0	35.0	28 03.2	114 53.3	HO	54 03 08	2259	34	242	1.40	100.0	258	192
120.0	37.5	27 59.7	115 04.8	HO	54 03 09	0124	43	213	2.01	100.0	23	66
120.0	40.0	27 56.2	115 15.2	HO	54 03 09	0241	40	164	2.45	100.0	250	868
120.0	42.5	27 50.3	115 29.3	HO	54 03 09	0350	95	447	2.60	100.0	265	2224
120.0	45.0	27 40.7	115 38.5	HO	54 03 09	0526	132	506	2.84	100.0	378	439
120.0	47.5	27 35.0	115 47.8	HO	54 03 09	0701	141	497	2.71	100.0	558	696
120.0	50.0	27 31.5	115 51.8	HO	54 03 09	0756	135	499	2.53	100.0	149	69
120.0	55.0	27 22.6	116 10.6	HO	54 03 09	1136	131	519	2.53	100.0	64	40
120.0	60.0	27 13.0	116 31.5	HO	54 03 09	1408	123	546	2.26	100.0	114	102
120.0	70.0	26 58.0	117 16.9	HO	54 03 09	1826	129	531	2.43	100.0	25	9
120.0	80.0	26 32.5	117 48.5	HO	54 03 09	2340	141	490	2.87	100.0	10	29
120.0	90.0	26 13.0	118 27.5	HO	54 03 10	0401	105	601	1.74	100.0	23	37
123.0	37.0	27 24.0	114 39.7	HO	54 03 08	0828	53	215	2.47	100.0	116	1351
123.0	40.0	27 21.3	114 53.7	HO	54 03 08	0551	141	494	2.85	100.0	676	1066
123.0	42.5	27 09.1	115 12.6	HO	54 03 08	0311	137	501	2.56	100.0	22	36
123.0	45.0	27 05.0	115 20.0	HO	54 03 08	0153	134	525	2.74	100.0	38	205
123.0	47.5	27 00.7	115 28.3	HO	54 03 08	0014	136	484	2.80	100.0	103	106
123.0	50.0	26 56.6	115 36.4	HO	54 03 07	2256	145	483	3.00	100.0	45	170
123.0	55.0	26 48.4	115 51.7	HO	54 03 07	2011	124	555	2.24	100.0	151	612
123.0	60.0	26 38.3	116 09.4	HO	54 03 07	1656	124	537	2.31	100.0	49	225
127.0	34.0	26 55.1	114 06.6	HO	54 03 06	2139	47	158	2.99	100.0	337	786
127.0	37.0	26 48.4	114 17.7	HO	54 03 06	2321	138	485	2.84	100.0	201	464
127.0	40.0	26 41.8	114 29.7	HO	54 03 07	0104	138	519	2.66	100.0	113	86
127.0	42.5	26 35.2	114 39.9	HO	54 03 07	0224	136	509	2.68	100.0	50	118
127.0	45.0	26 28.5	114 51.0	HO	54 03 07	0400	139	483	2.88	100.0	23	140
127.0	47.5	26 28.8	115 02.3	HO	54 03 07	0537	143	483	2.96	100.0	26	81
127.0	50.0	26 18.5	115 13.0	HO	54 03 07	0706	144	466	3.09	100.0	10	107
127.0	55.0	26 12.5	115 27.2	HO	54 03 07	0956	137	468	2.93	100.0	32	83
127.0	60.0	26 04.2	115 45.0	HO	54 03 07	1225	134	504	2.67	100.0	11	67
130.0	30.0	26 29.7	113 28.8	HO	54 03 06	1659	43	228	1.87	100.0	6	7

TABLE 1. (cont.)

CalCOFI Cruise 5403

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
130.0	35.0	26 19.0	113 48.5	HO	54 03 06	1356	137	538	2.54	25.0	635	1070
130.0	40.0	26 06.8	114 08.9	HO	54 03 06	1026	139	490	2.84	100.0	232	218
130.0	45.0	25 59.7	114 27.2	HO	54 03 06	0806	131	525	2.49	100.0	51	181
130.0	50.0	25 45.5	114 50.5	HO	54 03 06	0511	130	513	2.53	100.0	27	199
130.0	55.0	25 34.9	115 08.9	HO	54 03 06	0256	117	584	2.01	100.0	78	57
130.0	60.0	25 04.0	115 26.9	HO	54 03 05	2346	125	548	2.27	100.0	109	56
133.0	25.0	26 03.2	112 54.9	HO	54 03 05	0539	98	302	3.24	100.0	688	42
133.0	30.0	25 55.7	113 07.8	HO	54 03 05	0816	118	522	2.27	100.0	252	677
133.0	35.0	25 44.2	113 26.7	HO	54 03 05	1026	142	517	2.75	100.0	66	369
133.0	40.0	25 34.8	113 45.5	HO	54 03 05	1231	140	517	2.71	100.0	5	35
133.0	45.0	25 24.7	114 04.7	HO	54 03 05	1450	142	479	2.96	100.0	21	45
133.0	50.0	25 14.9	114 24.5	HO	54 03 05	1811	133	525	2.53	100.0	50	29
137.0	23.0	25 34.3	112 18.7	HO	54 03 05	0114	54	240	2.23	100.0	642	5
137.0	30.0	25 20.0	112 45.4	HO	54 03 04	2144	144	520	2.77	100.0	366	41
137.0	35.0	25 12.1	113 05.7	HO	54 03 04	1916	141	513	2.74	50.0	22	1001
137.0	40.0	25 01.3	113 26.3	HO	54 03 04	1656	137	505	2.72	100.0	4	48
137.0	45.0	24 50.0	113 44.8	HO	54 03 04	1336	138	541	2.56	100.0	30	64
137.0	50.0	24 40.0	114 02.0	HO	54 03 04	1141	139	499	2.79	100.0	45	58

TABLE 1. (cont.)

CalCOFI Cruise 5404

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow yr. mo. day	Time day (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
60.0	55.0	37 44.7	123 13.6	HO	54 04 11	1531	138	498	2.77	100.0	28	32
60.0	60.0	37 42.0	123 42.2	HO	54 04 11	1156	123	559	2.20	100.0	5	20
60.0	70.0	37 19.8	124 24.6	HO	54 04 11	0751	108	595	1.81	100.0	55	211
60.0	80.0	36 57.8	125 04.0	HO	54 04 11	0321	128	517	2.47	100.0	19	10
60.0	90.0	36 44.2	125 31.3	HO	54 04 11	0021	120	529	2.26	100.0	54	23
63.0	52.0	37 19.0	122 36.2	HO	54 04 13	1123	56	289	1.92	100.0	31	79
63.0	55.0	37 14.0	122 49.5	HO	54 04 13	1236	133	502	2.66	100.0	4	0
67.0	50.0	36 49.0	122 04.6	HO	54 04 13	1946	68	619	1.10	50.0	17	31
67.0	55.0	36 37.3	122 27.3	HO	54 04 13	1726	126	530	2.38	100.0	41	50
70.0	55.0	36 05.8	121 56.9	HO	54 04 09	1131	114	601	1.90	100.0	114	46
70.0	60.0	35 50.3	122 22.0	HO	54 04 09	1441	136	484	2.82	100.0	59	227
70.0	70.0	35 33.3	123 13.9	HO	54 04 09	1926	105	571	1.83	50.0	41	12
70.0	90.0	34 56.5	124 32.3	HO	54 04 10	0316	127	556	2.29	50.0	15	13
73.0	50.0	35 37.2	121 18.6	HO	54 04 14	0401	140	496	2.82	100.0	36	6
73.0	60.0	35 18.9	121 58.1	HO	54 04 14	0746	102	560	1.83	100.0	10	24
77.0	50.0	35 03.8	120 52.2	HO	54 04 14	2103	64	290	2.22	100.0	188	114
77.0	55.0	34 54.8	121 13.6	HO	54 04 14	1736	129	467	2.77	12.5	8	6
77.0	65.0	34 34.0	121 55.0	HO	54 04 14	1321	132	502	2.62	100.0	16	105
80.0	51.0	34 26.5	120 32.5	HO	54 04 15	0103	58	300	1.92	50.0	10	33
80.0	55.0	34 19.0	120 48.0	HO	54 04 15	0240	114	508	2.24	100.0	14	14
80.0	60.0	34 09.8	121 11.6	HO	54 04 15	0601	121	497	2.44	100.0	70	28
80.0	70.0	33 48.4	121 50.2	HO	54 04 15	0936	137	468	2.92	100.0	10	46
80.0	80.0	33 29.8	122 32.8	HO	54 04 15	1426	124	509	2.45	100.0	9	14
80.0	90.0	33 10.1	123 10.3	HO	54 04 15	1756	125	504	2.49	100.0	13	10
82.0	47.0	34 15.0	119 58.0	HO	54 04 16	2126	140	480	2.92	100.0	64	27
83.0	40.0	34 14.1	119 21.9	HO	54 04 17	0224	11	150	0.72	100.0	12	3723
83.0	43.0	34 08.0	119 34.0	HO	54 04 17	0011	118	554	2.13	50.0	62	37
83.0	48.0	33 58.3	119 55.0	HO	54 04 16	1927	78	363	2.14	100.0	97	27
83.0	51.0	33 52.3	120 08.6	HO	54 04 16	1707	102	408	2.49	100.0	23	15
83.0	55.0	33 44.0	120 24.5	HO	54 04 16	1521	126	497	2.54	100.0	101	28
83.0	60.0	33 42.3	120 51.6	HO	54 04 16	1211	136	468	2.91	100.0	22	114
83.0	70.0	33 24.0	121 23.1	HO	54 04 16	0901	114	548	2.08	100.0	10	109
83.0	80.0	32 58.0	122 08.2	HO	54 04 16	0251	138	480	2.87	100.0	32	26
83.0	90.0	32 33.6	122 50.0	HO	54 04 15	2241	119	526	2.26	100.0	45	253
85.0	39.0	34 00.0	119 04.6	HO	54 04 08	0441	107	515	2.07	100.0	120	182
85.0	40.0	33 57.5	119 11.8	HO	54 04 08	0336	113	547	2.07	50.0	165	70
85.0	45.0	33 47.0	119 31.2	HO	54 04 07	2236	146	450	3.25	100.0	95	33
85.0	50.0	33 37.0	119 50.5	HO	54 04 07	2016	117	557	2.09	100.0	57	23
85.0	55.0	33 27.2	120 06.6	HO	54 04 07	1612	131	516	2.55	100.0	16	102
85.0	60.0	33 17.0	120 33.5	HO	54 04 07	1326	136	519	2.61	50.0	16	122
87.0	35.0	33 50.3	118 37.2	HO	54 04 17	0621	128	499	2.56	50.0	4	111
87.0	40.0	33 40.0	118 58.3	HO	54 04 17	0840	133	470	2.83	100.0	18	195
87.0	45.0	33 30.3	119 19.0	HO	54 04 17	1134	136	488	2.78	100.0	34	151
87.0	50.0	33 21.3	119 41.1	HO	54 04 17	1400	59	289	2.03	100.0	4	9
87.0	55.0	33 10.0	120 00.5	HO	54 04 17	1621	143	460	3.10	100.0	48	14

TABLE 1. (cont.)

CalCOFI Cruise 5404

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
87.0	60.0	32 58.8	120 20.8	HO	54 04 17	1836	134	465	2.88	50.0	46	41
87.0	70.0	32 36.3	121 01.5	HO	54 04 17	2341	125	513	2.44	100.0	84	1281
87.0	80.0	32 14.9	121 41.8	HO	54 04 18	0341	129	494	2.60	100.0	120	365
87.0	90.0	31 53.0	122 22.5	HO	54 04 18	0831	123	513	2.40	100.0	17	188
90.0	28.0	33 28.5	117 46.7	HO	54 04 19	1951	118	508	2.32	50.0	18	42
90.0	30.0	33 24.6	117 53.7	HO	54 04 19	1839	109	533	2.05	25.0	18	29
90.0	37.0	33 11.4	118 24.2	HO	54 04 19	1456	138	465	2.97	100.0	26	177
90.0	45.0	32 53.5	118 52.7	HO	54 04 19	1126	93	600	1.54	100.0	127	532
90.0	55.0	32 31.7	119 30.5	HO	54 04 19	0601	132	475	2.77	100.0	59	192
90.0	60.0	32 21.9	119 52.2	HO	54 04 19	0326	123	525	2.34	100.0	30	164
90.0	70.0	32 02.9	120 34.0	HO	54 04 18	2113	132	479	2.76	100.0	80	393
90.0	80.0	31 43.2	121 16.3	HO	54 04 18	1721	138	476	2.89	100.0	27	85
90.0	90.0	31 23.3	122 00.0	HO	54 04 18	1214	134	468	2.85	100.0	43	143
93.0	27.0	32 56.0	117 19.0	ES	54 04 09	1957	88	360	2.45	50.0	129	37
93.0	30.0	32 50.0	117 31.5	ES	54 04 09	2312	134	534	2.50	100.0	101	669
93.0	35.0	32 39.3	117 51.7	ES	54 04 10	0156	140	482	2.90	100.0	207	295
93.0	40.0	32 30.0	118 12.5	ES	54 04 10	0541	147	514	2.85	100.0	35	165
93.0	45.0	32 22.0	118 30.2	ES	54 04 10	0856	142	496	2.86	100.0	98	823
93.0	50.0	32 10.0	118 53.0	ES	54 04 10	1411	148	480	3.09	100.0	17	183
93.0	55.0	31 59.0	119 14.5	ES	54 04 10	1711	156	395	3.96	100.0	8	158
93.0	60.0	31 48.0	119 35.5	ES	54 04 10	2056	153	457	3.34	100.0	14	588
93.0	70.0	31 25.0	120 20.0	ES	54 04 11	0411	152	428	3.56	50.0	2	425
93.0	80.0	31 02.0	121 05.0	ES	54 04 11	0956	144	485	2.98	100.0	25	446
93.0	90.0	30 47.0	121 35.0	ES	54 04 11	1506	144	450	3.20	100.0	36	386
97.0	30.0	32 15.7	117 09.0	ES	54 04 13	0848	38	201	1.89	100.0	148	1089
97.0	40.0	31 55.0	117 49.0	ES	54 04 13	0311	141	482	2.92	100.0	122	192
97.0	45.0	31 45.2	118 08.5	ES	54 04 12	2326	140	484	2.89	100.0	45	49
97.0	50.0	31 35.0	118 29.2	ES	54 04 12	2011	144	441	3.26	100.0	173	429
97.0	55.0	31 25.2	118 50.0	ES	54 04 12	1711	144	487	2.96	100.0	32	453
97.0	60.0	31 16.2	119 07.5	ES	54 04 12	1431	137	463	2.97	100.0	13	1284
97.0	70.0	30 56.0	119 48.5	ES	54 04 12	0806	144	501	2.88	50.0	17	213
97.0	80.0	30 35.5	120 30.0	ES	54 04 12	0226	149	480	3.10	100.0	93	122
97.0	90.0	30 15.0	121 10.0	ES	54 04 11	1941	143	505	2.82	100.0	164	152
100.0	29.0	31 42.3	116 43.5	ES	54 04 14	1819	35	164	2.16	100.0	100	37
100.0	30.0	31 40.4	116 46.3	ES	54 04 14	1906	134	503	2.66	100.0	266	73
100.0	35.0	31 31.0	117 06.5	ES	54 04 14	2201	140	484	2.88	100.0	556	30
100.0	40.0	31 19.5	117 25.8	ES	54 04 15	0056	137	485	2.83	100.0	183	52
100.0	45.0	31 09.0	117 45.0	ES	54 04 15	0346	140	503	2.77	100.0	112	420
100.0	50.0	30 58.5	118 03.8	ES	54 04 15	0831	140	463	3.02	100.0	29	218
100.0	55.0	30 49.0	118 22.1	ES	54 04 15	1131	136	475	2.87	100.0	43	317
100.0	60.0	30 38.5	118 42.0	ES	54 04 15	1426	138	460	3.00	100.0	79	279
100.0	70.0	30 20.5	119 26.5	ES	54 04 15	2141	123	422	2.90	100.0	67	71
100.0	80.0	30 04.0	120 03.5	ES	54 04 16	0241	140	436	3.20	100.0	14	155
100.0	90.0	29 47.0	120 40.0	ES	54 04 16	0941	136	468	2.91	100.0	74	256
100.0	100.0	29 28.0	121 22.5	ES	54 04 16	1526	137	461	2.97	100.0	43	306

TABLE 1. (cont.)

CalCOFI Cruise 5404												
Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
103.0	30.0	31 05.2	116 25.1	ES	54 04 19	1124	41	174	2.36	100.0	60	253
103.0	35.0	30 55.2	116 45.2	ES	54 04 19	1356	140	443	3.17	100.0	58	216
103.0	40.0	30 45.0	117 17.5	ES	54 04 19	1726	152	465	3.27	100.0	214	1937
103.0	45.0	30 35.5	117 25.0	ES	54 04 19	2006	139	475	2.93	100.0	253	132
103.0	50.0	30 25.5	117 45.0	ES	54 04 19	2246	144	473	3.04	100.0	68	448
103.0	55.0	30 15.5	118 05.0	ES	54 04 20	0146	156	402	3.88	100.0	77	171
103.0	60.0	30 06.0	118 25.0	ES	54 04 20	0541	146	496	2.94	100.0	116	182
103.0	70.0	29 44.0	119 02.8	ES	54 04 17	1041	143	475	3.00	100.0	42	205
103.0	80.0	29 25.0	119 43.0	ES	54 04 17	0431	119	369	3.23	100.0	81	190
107.0	32.0	30 21.8	116 11.0	ES	54 04 19	0421	134	427	3.14	100.0	136	175
107.0	35.0	30 15.0	116 25.4	ES	54 04 19	0151	154	422	3.66	100.0	40	145
107.0	40.0	30 07.0	116 44.8	ES	54 04 18	2206	151	411	3.66	100.0	15	34
107.0	45.0	29 59.0	117 04.5	ES	54 04 18	1905	146	449	3.25	100.0	80	42
107.0	50.0	29 51.3	117 24.2	ES	54 04 18	1611	147	404	3.64	100.0	77	178
107.0	55.0	29 43.5	117 42.5	ES	54 04 18	1211	146	424	3.44	100.0	26	287
107.0	60.0	29 32.5	118 02.5	ES	54 04 17	0856	149	424	3.51	100.0	35	101
107.0	70.0	29 05.0	118 43.0	ES	54 04 17	2216	147	432	3.40	100.0	23	151
107.0	80.0	28 52.0	119 20.0	ES	54 04 17	1646	136	461	2.94	100.0	35	182
110.0	33.0	29 48.5	115 52.8	HO	54 04 28	0437	97	488	1.99	100.0	179	670
110.0	35.0	29 45.8	116 00.0	HO	54 04 28	0611	138	434	3.19	100.0	86	991
110.0	40.0	29 33.8	116 17.5	HO	54 04 28	0816	139	443	3.14	100.0	52	248
110.0	45.0	29 27.7	116 33.5	HO	54 04 28	1211	140	485	2.88	100.0	13	32
110.0	50.0	29 16.3	117 00.0	HO	54 04 28	1451	142	480	2.96	100.0	13	146
110.0	55.0	29 07.7	117 25.5	HO	54 04 28	1706	143	470	3.04	100.0	20	77
110.0	60.0	28 57.8	117 47.0	HO	54 04 28	2006	149	442	3.38	100.0	17	111
110.0	70.0	28 36.2	118 18.0	HO	54 04 28	2341	129	537	2.41	100.0	244	151
110.0	80.0	28 15.7	118 52.8	HO	54 04 29	0426	149	466	3.19	100.0	148	233
110.0	90.0	27 54.5	119 27.0	HO	54 04 29	0846	132	465	2.84	100.0	38	29
113.0	30.0	29 24.3	115 18.9	HO	54 04 30	1439	50	125	3.97	100.0	18	5
113.0	32.5	29 19.2	115 29.4	HO	54 04 30	1318	82	299	2.74	100.0	173	171
113.0	35.0	29 13.3	115 41.8	HO	54 04 30	1136	144	519	2.77	100.0	121	1561
113.0	37.5	29 08.5	115 51.7	HO	54 04 30	0921	148	443	3.34	100.0	68	472
113.0	40.0	29 04.0	116 01.3	HO	54 04 30	0801	152	436	3.48	100.0	59	146
113.0	42.5	28 59.4	116 10.9	HO	54 04 30	0646	151	425	3.56	100.0	45	134
113.0	45.0	28 56.3	116 17.5	HO	54 04 30	0541	141	460	3.06	100.0	80	191
113.0	47.5	28 51.3	116 26.9	HO	54 04 30	0416	141	483	2.92	100.0	60	164
113.0	50.0	28 45.3	116 37.4	HO	54 04 30	0256	120	525	2.29	100.0	31	349
113.0	55.0	28 34.1	116 56.7	HO	54 04 29	2346	144	454	3.17	100.0	160	109
113.0	60.0	28 23.2	117 16.9	HO	54 04 29	2131	151	438	3.46	100.0	46	67
113.0	70.0	28 02.2	117 55.5	HO	54 04 29	1736	156	437	3.56	100.0	30	217
117.0	26.0	28 55.5	114 42.0	CR	54 04 16	0343	55	192	2.86	100.0	132	38
117.0	28.0	28 52.0	114 48.5	CR	54 04 16	0503	65	241	2.70	100.0	47	461
117.0	30.0	28 48.0	114 56.5	CR	54 04 16	0628	76	292	2.59	100.0	188	829
117.0	32.5	28 42.0	115 05.0	CR	54 04 16	0822	110	347	3.17	50.0	99	673
117.0	35.0	28 36.5	115 15.0	CR	54 04 16	1026	142	433	3.28	100.0	66	424

TABLE 1. (cont.)

CalCOFI Cruise 5404

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
117.0	37.5	28 32.0	115 25.5	CR	54 04 16	1221	130	468	2.78	100.0	182	681
117.0	40.0	28 26.5	115 36.0	CR	54 04 16	1402	136	467	3.71	100.0	307	536
117.0	42.5	28 24.0	115 46.5	CR	54 04 16	1641	134	479	2.80	100.0	47	28
117.0	45.0	28 19.0	115 56.0	CR	54 04 16	1811	132	487	2.72	100.0	81	33
117.0	47.5	28 14.0	116 06.0	CR	54 04 16	1956	135	473	2.86	100.0	97	31
117.0	50.0	28 08.5	116 15.5	CR	54 04 16	2141	135	481	2.81	100.0	100	57
117.0	55.0	27 57.0	116 35.0	CR	54 04 17	0041	141	456	3.10	100.0	64	13
117.0	60.0	27 46.0	116 54.0	CR	54 04 17	0348	137	387	3.55	100.0	23	30
117.0	70.0	27 24.5	117 32.0	CR	54 04 17	0956	139	459	3.03	100.0	72	71
120.0	25.0	28 24.5	114 16.0	CR	54 04 15	2218	55	210	2.62	100.0	241	240
120.0	27.5	28 18.0	114 24.0	CR	54 04 15	2053	71	215	3.31	100.0	158	349
120.0	30.0	28 13.0	114 34.0	CR	54 04 15	1908	75	138	5.42	50.0	32	240
120.0	32.5	28 08.0	114 44.5	CR	54 04 15	1658	64	237	2.72	100.0	121	2965
120.0	35.0	28 03.0	114 54.0	CR	54 04 15	1510	72	251	2.88	100.0	83	1177
120.0	37.5	27 58.5	115 03.5	CR	54 04 15	1354	39	126	3.13	100.0	12	6
120.0	40.0	27 58.0	115 16.5	CR	54 04 15	1204	35	147	2.37	100.0	65	18
120.0	42.5	27 47.0	115 23.5	CR	54 04 15	0946	130	348	3.74	100.0	322	139
120.0	45.0	27 39.0	115 30.0	CR	54 04 15	0801	135	346	3.89	100.0	208	481
120.0	47.5	27 35.0	115 40.0	CR	54 04 15	0511	128	396	3.24	50.0	265	324
120.0	50.0	27 31.0	115 52.0	CR	54 04 15	0226	135	360	3.75	50.0	75	510
120.0	55.0	27 22.0	116 11.0	CR	54 04 14	2346	126	420	3.00	100.0	81	83
120.0	60.0	27 13.0	116 32.0	CR	54 04 14	2046	135	408	3.31	100.0	78	37
120.0	70.0	26 52.0	117 11.0	CR	54 04 14	1520	125	421	2.97	100.0	120	191
123.0	37.0	27 24.0	114 40.0	CR	54 04 13	1719	53	176	3.02	50.0	96	44
123.0	40.0	27 18.0	114 51.5	CR	54 04 13	1856	140	381	3.68	50.0	695	68
123.0	42.5	27 13.0	115 01.0	CR	54 04 13	2116	132	418	3.15	50.0	622	130
123.0	45.0	27 08.0	115 10.5	CR	54 04 13	2301	131	380	3.45	50.0	824	301
123.0	47.5	27 03.3	115 20.2	CR	54 04 14	0056	136	353	3.86	100.0	525	351
123.0	50.0	26 58.0	115 30.5	CR	54 04 14	0246	137	380	3.59	100.0	181	334
123.0	55.0	26 48.0	115 46.0	CR	54 04 14	0524	137	384	3.58	100.0	157	110
123.0	60.0	26 38.0	116 09.0	CR	54 04 14	0806	120	427	2.81	100.0	100	281
127.0	34.0	26 54.0	114 08.0	CR	54 04 12	2053	70	248	2.81	50.0	365	60
127.0	37.0	26 49.5	114 17.3	CR	54 04 12	1901	144	357	4.02	100.0	775	133
127.0	40.0	26 44.5	114 28.0	CR	54 04 12	1711	140	377	3.72	100.0	438	161
127.0	42.5	26 39.0	114 39.5	CR	54 04 12	1521	144	341	4.21	100.0	262	951
127.0	45.0	26 34.0	114 49.0	CR	54 04 12	1346	132	387	3.41	100.0	349	812
127.0	47.5	26 23.0	115 00.0	CR	54 04 12	1131	132	406	3.25	100.0	242	72
127.0	50.0	26 24.0	115 07.0	CR	54 04 12	0830	125	441	2.82	100.0	208	104
127.0	55.0	26 13.5	115 27.0	CR	54 04 12	0531	138	291	3.55	100.0	46	164
127.0	60.0	26 04.0	115 46.0	CR	54 04 12	0221	137	404	3.38	100.0	167	265
130.0	30.0	26 29.0	113 30.5	CR	54 04 11	0238	69	215	3.19	50.0	262	4
130.0	35.0	26 19.0	113 48.5	CR	54 04 11	0526	143	380	3.77	100.0	209	502
130.0	40.0	26 09.0	114 06.0	CR	54 04 11	0831	122	435	2.81	100.0	92	217
130.0	45.0	25 54.5	114 27.5	CR	54 04 11	1206	130	412	3.16	100.0	164	399
130.0	50.0	25 48.5	114 46.5	CR	54 04 11	1456	128	419	3.06	100.0	229	202

TABLE 1. (cont.)

CalCOFI Cruise 5404												
Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
130.0	55.0	25 37.0	115 08.0	CR	54 04 11	1736	138	395	3.50	100.0	22	833
130.0	60.0	25 29.0	115 24.0	CR	54 04 11	2016	141	380	3.72	100.0	23	812
133.0	25.0	26 06.0	112 50.5	CR	54 04 10	2113	71	252	2.80	50.0	69	24
133.0	30.0	25 56.0	113 08.5	CR	54 04 10	1806	120	449	2.68	100.0	192	30
133.0	35.0	25 46.0	113 27.5	CR	54 04 10	1456	130	432	3.01	100.0	100	172
133.0	40.0	25 35.5	113 46.0	CR	54 04 10	1201	131	434	3.01	100.0	30	510
133.0	45.0	25 25.0	114 05.0	CR	54 04 10	0916	129	462	2.78	100.0	46	189
133.0	50.0	25 14.5	114 24.0	CR	54 04 10	0551	126	433	2.92	100.0	42	700
133.0	60.0	24 54.0	115 02.0	CR	54 04 10	0046	140	415	3.37	100.0	39	41
137.0	23.0	25 34.0	112 19.0	CR	54 04 08	2223	70	230	3.02	50.0	46	1
137.0	30.0	25 20.0	112 45.5	CR	54 04 09	0211	141	404	3.48	100.0	174	11
137.0	35.0	25 10.0	113 04.5	CR	54 04 09	0506	144	406	3.54	100.0	128	139
137.0	40.0	25 00.0	113 23.5	CR	54 04 09	0806	137	393	3.49	100.0	13	97
137.0	45.0	24 48.0	113 42.5	CR	54 04 09	1156	130	447	2.91	100.0	34	814
137.0	50.0	24 37.5	114 02.0	CR	54 04 09	1441	128	442	2.90	100.0	91	688
137.0	60.0	24 19.5	114 39.5	CR	54 04 09	1916	120	470	2.54	100.0	49	823

TABLE 1. (cont.)

CalCOFI Cruise 5405

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
60.0	55.0	37 48.0	123 15.0	CR	54 05 10	1313	75	296	2.52	100.0	12	40
60.0	60.0	37 37.0	123 37.0	CR	54 05 10	1656	142	500	2.83	100.0	21	42
60.0	70.0	37 18.0	124 21.0	CR	54 05 10	2121	139	497	2.80	12.5	3	4
60.0	80.0	36 57.0	125 04.5	CR	54 05 11	0348	117	535	2.18	12.5	6	6
60.0	90.0	36 37.0	125 47.0	CR	54 05 11	0831	147	442	3.33	50.0	17	34
63.0	52.0	37 20.0	122 38.0	CR	54 05 09	1157	58	261	2.23	100.0	24	26
63.0	55.0	37 16.0	122 50.5	CR	54 05 09	1020	125	544	2.30	100.0	86	62
67.0	50.0	36 49.0	122 05.5	CR	54 05 09	0138	64	308	2.08	100.0	17	28
67.0	55.0	36 40.0	122 24.0	CR	54 05 09	0436	144	493	2.91	50.0	26	32
70.0	51.0	36 10.5	121 46.0	CR	54 05 13	0055	126	498	2.53	100.0	19	21
70.0	55.0	36 03.0	122 02.0	CR	54 05 12	2116	127	527	2.41	50.0	29	22
70.0	60.0	35 51.5	122 26.0	CR	54 05 12	1818	152	450	3.38	25.0	6	16
70.0	70.0	35 35.0	123 12.0	CR	54 05 12	0916	121	568	2.14	100.0	18	194
70.0	80.0	35 13.0	123 48.0	CR	54 05 12	0355	145	531	2.74	100.0	36	353
70.0	90.0	34 52.5	124 30.0	CR	54 05 11	2016	132	483	2.73	100.0	33	48
73.0	50.0	35 37.0	121 16.5	CR	54 05 13	0522	77	348	2.21	100.0	36	17
73.0	60.0	35 18.0	121 58.0	CR	54 05 13	1051	136	475	2.87	50.0	16	234
77.0	55.0	34 55.0	121 14.0	CR	54 05 13	2006	132	471	2.80	50.0	15	16
77.0	65.0	34 35.5	121 54.0	CR	54 05 13	1526	134	463	2.90	50.0	7	33
80.0	51.0	34 35.5	120 33.0	CR	54 05 14	0457	79	319	2.48	100.0	17	7
80.0	55.0	34 19.0	120 48.0	CR	54 05 14	0653	124	545	2.27	100.0	13	19
80.0	60.0	34 09.0	121 09.0	CR	54 05 14	0956	126	510	2.48	25.0	8	21
80.0	70.0	33 48.5	121 50.5	CR	54 05 14	1443	118	560	2.11	50.0	27	142
80.0	80.0	33 29.0	123 32.0	CR	54 05 14	2006	132	505	2.60	100.0	25	506
80.0	90.0	33 12.5	123 06.0	CR	54 05 15	0011	126	514	2.46	100.0	20	288
82.0	47.0	34 16.5	119 58.0	CR	54 05 16	0833	121	472	2.57	50.0	13	20
83.0	40.0	34 14.5	119 22.0	CR	54 05 16	1429	34	227	1.52	50.0	28	796
83.0	43.0	34 08.0	119 33.5	CR	54 05 16	1226	119	542	2.19	6.2	1	2
83.0	48.0	33 58.5	119 55.0	CR	54 05 16	0558	69	247	2.78	50.0	46	112
83.0	51.0	33 52.0	120 07.0	CR	54 05 16	0331	78	464	1.69	50.0	14	5
83.0	55.0	33 42.5	120 23.5	CR	54 05 16	0051	132	462	2.85	25.0	12	77
83.0	60.0	33 34.0	120 49.0	CR	54 05 15	2115	108	508	2.12	12.5	13	66
83.0	70.0	33 14.5	121 26.0	CR	54 05 15	1601	129	464	2.78	100.0	0	18
83.0	80.0	32 49.5	122 08.0	CR	54 05 15	1021	129	512	2.52	100.0	60	1915
83.0	90.0	32 34.0	122 47.5	CR	54 05 15	0556	130	463	2.81	100.0	19	59
85.0	39.0	34 00.0	119 03.0	CR	54 05 16	1703	66	405	1.62	100.0	20	55
85.0	40.0	33 57.0	119 10.5	CR	54 05 16	1831	119	482	2.48	25.0	4	8
85.0	45.0	33 46.0	119 32.5	CR	54 05 16	2116	132	449	2.94	50.0	34	4
85.0	50.0	33 37.0	119 52.0	CR	54 05 17	0031	118	536	2.21	25.0	26	0
85.0	55.0	33 26.5	120 13.5	CR	54 05 17	0311	113	514	2.19	50.0	44	150
85.0	60.0	33 16.5	120 34.5	CR	54 05 17	0641	127	442	2.88	50.0	56	387
87.0	35.0	33 50.0	118 37.5	CR	54 05 17	1841	108	505	2.14	50.0	20	17
87.0	40.0	33 40.5	118 59.0	CR	54 05 17	2141	138	391	3.54	100.0	34	9
87.0	45.0	33 30.0	119 19.0	CR	54 05 18	0056	136	428	3.19	25.0	28	2
87.0	50.0	33 20.0	119 39.5	CR	54 05 18	0333	51	261	1.94	100.0	97	45

TABLE 1. (cont.)

CalCOFI Cruise 5405

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
87.0	55.0	33 10.0	120 00.5	CR	54 05 18	0626	116	533	2.17	50.0	28	43
87.0	60.0	33 00.0	120 21.5	CR	54 05 18	0916	133	359	3.70	25.0	220	518
87.0	70.0	32 38.0	121 06.0	CR	54 05 18	1456	129	434	2.97	100.0	45	113
87.0	80.0	32 19.5	121 46.5	CR	54 05 18	1916	130	458	2.83	100.0	23	38
87.0	90.0	31 59.0	122 24.0	CR	54 05 19	0011	129	456	2.82	100.0	68	123
90.0	28.0	33 28.5	117 47.0	CR	54 05 21	0228	59	270	2.16	100.0	131	1951
90.0	30.0	33 25.0	117 55.0	CR	54 05 21	0111	127	475	2.67	100.0	143	53
90.0	33.5	33 17.5	118 09.5	CR	54 05 20	1321	117	505	2.32	100.0	48	145
90.0	37.0	33 11.0	118 23.5	CR	54 05 20	1041	133	461	2.89	100.0	31	312
90.0	41.0	33 02.5	118 39.3	CR	54 05 20	0816	139	431	3.23	50.0	48	71
90.0	45.0	32 54.5	118 56.0	CR	54 05 20	0556	126	486	2.60	50.0	57	28
90.0	50.0	32 44.5	119 16.0	CR	54 05 20	0332	97	403	2.41	100.0	91	31
90.0	55.0	32 35.0	119 36.5	CR	54 05 20	0011	124	479	2.59	100.0	21	42
90.0	60.0	32 25.0	119 58.0	CR	54 05 19	2051	136	447	3.03	50.0	45	69
90.0	70.0	32 04.5	120 39.0	CR	54 05 19	1506	133	424	3.14	100.0	15	128
90.0	80.0	31 41.5	121 25.5	CR	54 05 19	0916	141	404	3.49	100.0	48	89
90.0	90.0	31 26.0	121 58.5	CR	54 05 19	0456	130	479	2.72	100.0	19	86
93.0	27.0	32 56.5	117 19.5	CR	54 05 21	0713	70	204	3.40	100.0	355	796
93.0	30.0	32 49.5	117 31.5	CR	54 05 21	0901	123	502	2.45	100.0	20	30
93.0	35.0	32 40.0	117 52.0	CR	54 05 21	1226	128	490	2.62	100.0	44	531
93.0	40.0	32 30.0	118 12.5	CR	54 05 21	1511	120	488	2.46	100.0	77	167
93.0	45.0	32 20.0	118 33.0	CR	54 05 21	1746	128	464	2.76	100.0	59	188
93.0	50.0	32 09.5	118 53.0	CR	54 05 21	2031	122	478	2.56	100.0	87	362
93.0	55.0	32 00.0	119 14.0	CR	54 05 22	0006	127	485	2.63	100.0	117	268
93.0	60.0	31 49.5	119 34.5	CR	54 05 22	0246	127	494	2.56	100.0	49	107
93.0	70.0	31 28.0	120 17.0	CR	54 05 22	0731	112	555	2.02	100.0	64	119
93.0	80.0	31 11.0	120 55.5	CR	54 05 22	1221	117	510	2.30	100.0	75	69
93.0	90.0	30 50.0	121 35.0	CR	54 05 22	1706	115	513	2.25	100.0	39	49
97.0	30.0	32 15.5	117 09.0	CR	54 05 24	0738	52	200	2.59	100.0	28	731
97.0	32.0	32 11.5	117 13.0	CR	54 05 24	0621	120	500	2.40	100.0	80	27
97.0	36.0	32 03.5	117 34.0	CR	54 05 24	0416	132	523	2.52	100.0	114	70
97.0	40.0	31 55.5	117 49.5	CR	54 05 24	0041	131	466	2.81	100.0	23	96
97.0	45.0	31 45.5	118 10.0	CR	54 05 23	2146	131	497	2.63	100.0	187	311
97.0	50.0	31 35.5	118 31.0	CR	54 05 23	1856	129	476	2.70	100.0	35	117
97.0	55.0	31 25.5	118 51.0	CR	54 05 23	1616	127	493	2.57	100.0	29	37
97.0	60.0	31 13.0	119 09.0	CR	54 05 23	1256	109	539	2.03	100.0	10	46
97.0	70.0	30 54.0	119 49.0	CR	54 05 23	0806	138	426	3.24	100.0	28	56
97.0	80.0	30 34.0	120 31.0	CR	54 05 23	0256	132	457	2.89	100.0	11	71
97.0	90.0	30 15.0	121 11.0	CR	54 05 22	2156	128	462	2.77	100.0	107	49
100.0	29.0	31 42.7	116 43.7	HO	54 05 21	0058	88	303	2.90	100.0	42	6
100.0	30.0	31 39.5	116 47.1	HO	54 05 21	2356	140	479	2.92	100.0	127	4
100.0	35.0	31 29.3	117 06.3	HO	54 05 20	2141	128	495	2.59	100.0	130	33
100.0	40.0	31 20.2	117 25.4	HO	54 05 20	1921	142	469	3.03	100.0	84	329
100.0	45.0	31 11.8	117 45.8	HO	54 05 20	1701	148	431	3.44	100.0	43	1015
100.0	50.0	31 01.4	118 07.9	HO	54 05 20	1411	143	451	3.18	100.0	65	41

TABLE 1. (cont.)

CalCOFI Cruise 5405

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
100.0	55.0	30 48.8	118 20.2	HO	54 05 20	1156	155	414	3.74	100.0	75	133
100.0	60.0	30 38.9	118 41.8	HO	54 05 20	0941	131	496	2.65	100.0	28	177
100.0	70.0	30 19.6	119 27.8	HO	54 05 20	0451	149	429	3.47	100.0	38	78
100.0	80.0	30 00.5	120 03.8	HO	54 05 20	0026	145	444	3.26	100.0	97	268
100.0	90.0	29 41.3	120 44.3	HO	54 05 19	1931	151	449	3.37	100.0	111	251
100.0	100.0	29 21.8	120 25.0	HO	54 05 19	1531	147	437	3.37	100.0	23	65
103.0	30.0	31 05.2	116 25.0	HO	54 05 18	0543	34	270	1.25	100.0	31	579
103.0	35.0	30 56.2	116 43.4	HO	54 05 18	0756	123	496	2.48	100.0	54	156
103.0	40.0	30 46.6	117 02.3	HO	54 05 18	1026	140	467	3.00	100.0	276	665
103.0	45.0	30 34.3	117 25.9	HO	54 05 18	1331	130	504	2.57	100.0	49	853
103.0	50.0	30 24.1	117 47.0	HO	54 05 18	1556	121	515	2.36	100.0	123	390
103.0	55.0	30 16.2	118 05.8	HO	54 05 18	1801	138	474	2.91	100.0	102	104
103.0	60.0	30 04.9	118 26.3	HO	54 05 18	2016	133	484	2.75	100.0	116	183
103.0	70.0	29 44.5	119 07.7	HO	54 05 19	0051	128	478	2.68	100.0	78	100
103.0	80.0	29 24.1	119 47.8	HO	54 05 19	0506	152	445	3.43	100.0	69	20
103.0	90.0	29 02.2	120 26.7	HO	54 05 19	1001	147	464	3.17	100.0	19	60
107.0	32.0	30 28.3	116 14.8	HO	54 05 18	0141	136	461	2.95	50.0	254	18
107.0	35.0	30 19.2	116 33.8	HO	54 05 17	2236	130	474	2.75	100.0	161	67
107.0	40.0	30 11.2	116 49.3	HO	54 05 17	2006	126	485	2.60	100.0	105	35
107.0	45.0	30 01.8	117 07.7	HO	54 05 17	1746	134	457	2.93	100.0	23	119
107.0	50.0	29 58.3	117 28.7	HO	54 05 17	1446	146	439	3.32	100.0	78	66
107.0	55.0	29 49.1	117 48.1	HO	54 05 17	1231	137	478	2.86	100.0	49	49
107.0	60.0	29 37.2	118 07.2	HO	54 05 17	1011	148	442	3.35	100.0	24	55
107.0	70.0	29 15.0	118 45.2	HO	54 05 17	0526	151	433	3.49	100.0	78	186
107.0	80.0	28 52.3	119 22.8	HO	54 05 17	0101	165	406	4.05	100.0	82	45
110.0	33.0	29 50.3	115 52.7	HO	54 05 15	1458	93	288	3.22	100.0	170	2976
110.0	35.0	29 46.0	115 59.8	HO	54 05 15	1606	141	458	3.08	100.0	84	263
110.0	40.0	29 36.5	116 19.8	HO	54 05 15	1816	140	468	2.99	100.0	34	37
110.0	45.0	29 27.8	116 38.9	HO	54 05 15	2116	147	421	3.49	100.0	28	44
110.0	50.0	29 18.4	116 57.9	HO	54 05 15	2331	139	486	2.86	100.0	96	192
110.0	55.0	29 08.7	117 17.2	HO	54 05 16	0151	146	434	3.37	100.0	131	134
110.0	60.0	28 59.3	117 35.7	HO	54 05 16	0416	146	417	3.50	100.0	86	128
110.0	70.0	28 35.5	118 18.8	HO	54 05 16	0956	140	460	3.04	100.0	51	244
110.0	80.0	28 17.0	118 58.0	HO	54 05 16	1356	151	426	3.54	100.0	29	103
110.0	90.0	27 56.5	119 36.0	HO	54 05 16	1856	133	477	2.79	100.0	74	156
113.0	30.0	29 26.2	115 18.7	HO	54 05 15	1033	39	291	1.33	100.0	7	9
113.0	32.5	29 21.2	115 30.7	HO	54 05 15	0902	92	383	2.39	50.0	13	33
113.0	35.0	29 18.0	115 38.8	HO	54 05 15	0706	110	538	2.04	100.0	128	717
113.0	37.5	29 12.4	115 48.8	HO	54 05 15	0536	130	479	2.72	100.0	54	1087
113.0	40.0	29 06.5	115 58.8	HO	54 05 15	0411	142	448	3.16	100.0	31	152
113.0	42.5	29 00.8	116 08.8	HO	54 05 15	0246	132	475	2.79	100.0	29	108
113.0	45.0	28 55.0	116 19.0	HO	54 05 15	0121	137	465	2.94	100.0	111	46
113.0	47.5	28 49.9	116 28.8	HO	54 05 14	2351	146	454	3.20	100.0	98	83
113.0	50.0	28 43.9	116 38.3	HO	54 05 14	2156	136	479	2.83	100.0	312	153
113.0	55.0	28 33.3	116 57.0	HO	54 05 14	1921	136	485	2.81	100.0	183	76

TABLE 1. (cont.)

CalCOFI Cruise 5405

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
113.0	60.0	28 23.0	117 17.7	HO	54 05 14	1701	136	461	2.96	100.0	110	100
113.0	70.0	28 02.0	117 55.5	HO	54 05 14	1216	135	449	3.01	100.0	51	400
117.0	26.0	28 51.3	114 45.8	HO	54 05 13	0158	66	253	2.62	50.0	109	97
117.0	28.0	28 44.8	114 56.8	HO	54 05 13	0312	80	344	2.31	50.0	164	140
117.0	30.0	28 41.3	115 02.2	HO	54 05 13	0417	89	381	2.35	100.0	127	186
117.0	32.5	28 37.9	115 08.1	HO	54 05 13	0526	132	477	2.78	100.0	85	922
117.0	35.0	28 36.9	115 17.2	HO	54 05 13	0636	127	467	2.72	50.0	84	438
117.0	37.5	28 33.0	115 25.6	HO	54 05 13	0751	136	434	3.15	100.0	57	556
117.0	40.0	28 27.2	115 35.8	HO	54 05 13	1636	109	518	2.10	100.0	97	52
117.0	42.5	28 23.2	115 45.7	HO	54 05 13	1816	146	380	3.83	100.0	38	36
117.0	45.0	28 18.2	115 55.3	HO	54 05 13	1941	134	479	2.80	100.0	28	50
117.0	47.5	28 13.6	116 05.4	HO	54 05 13	2101	127	531	2.39	100.0	137	1552
117.0	50.0	28 08.0	116 15.2	HO	54 05 13	2226	126	504	2.49	100.0	86	243
117.0	55.0	27 57.8	116 34.0	HO	54 05 14	0041	112	534	2.10	100.0	201	515
117.0	60.0	27 46.6	116 53.0	HO	54 05 14	0256	122	504	2.43	100.0	535	73
117.0	70.0	27 25.3	117 29.0	HO	54 05 14	0726	113	541	2.10	100.0	37	108
120.0	25.0	28 23.8	114 18.2	HO	54 05 12	2127	52	251	2.06	100.0	66	196
120.0	27.5	28 18.3	114 27.6	HO	54 05 12	2013	71	248	2.87	100.0	481	262
120.0	30.0	28 12.8	114 36.7	HO	54 05 12	1858	63	283	2.23	50.0	359	882
120.0	32.5	28 07.5	114 45.3	HO	54 05 12	1753	68	263	2.59	100.0	179	1594
120.0	35.0	28 02.9	114 54.0	HO	54 05 12	1608	57	233	2.42	100.0	430	1890
120.0	37.5	27 59.6	115 01.2	HO	54 05 12	1453	52	266	1.96	100.0	54	701
120.0	40.0	27 55.7	115 15.0	HO	54 05 12	1334	29	152	1.90	100.0	11	110
120.0	42.5	27 54.9	115 31.2	HO	54 05 12	1136	134	408	3.28	100.0	17	138
120.0	45.0	27 41.0	115 45.2	HO	54 05 12	0936	133	448	2.96	100.0	14	5
120.0	47.5	27 36.4	115 53.0	HO	54 05 12	0801	139	427	3.25	100.0	20	11
120.0	50.0	27 31.8	116 01.2	HO	54 05 12	0551	105	538	1.96	50.0	59	70
120.0	55.0	27 22.2	116 17.5	HO	54 05 12	0326	138	466	2.96	100.0	203	60
120.0	60.0	27 12.6	116 34.2	HO	54 05 12	0106	136	495	2.74	100.0	106	70
120.0	70.0	26 51.9	117 10.8	HO	54 05 11	2011	143	451	3.18	100.0	116	13
120.0	80.0	26 30.5	117 47.0	HO	54 05 11	1546	151	427	3.54	100.0	176	109
120.0	90.0	26 24.8	118 18.0	HO	54 05 11	1156	149	425	3.51	100.0	57	322
123.0	37.0	27 24.4	114 40.3	HO	54 05 10	0223	67	192	3.49	100.0	34	56
123.0	40.0	27 19.3	114 51.8	HO	54 05 10	0356	147	431	3.41	100.0	123	36
123.0	42.5	27 13.4	115 01.3	HO	54 05 10	1516	153	482	3.18	100.0	25	30
123.0	45.0	27 08.3	115 11.8	HO	54 05 10	1636	130	491	2.64	100.0	66	81
123.0	47.5	27 03.4	115 22.6	HO	54 05 10	1801	148	452	3.28	100.0	98	337
123.0	50.0	26 58.0	115 33.5	HO	54 05 10	1926	147	468	3.15	50.0	168	38
123.0	55.0	26 49.0	115 54.1	HO	54 05 10	2141	147	453	3.24	100.0	216	667
123.0	60.0	26 39.0	116 15.0	HO	54 05 11	0006	138	481	2.87	100.0	278	515
127.0	34.0	26 56.2	114 05.2	HO	54 05 09	2138	63	212	2.96	100.0	186	45
127.0	37.0	26 44.8	114 19.0	HO	54 05 09	1936	139	484	2.86	100.0	170	63
127.0	40.0	26 39.2	114 29.7	HO	54 05 09	1746	142	484	2.93	100.0	84	62
127.0	42.5	26 35.7	114 37.7	HO	54 05 09	1631	146	482	3.02	100.0	91	107
127.0	45.0	26 31.2	114 48.2	HO	54 05 09	1511	145	464	3.13	100.0	22	63

TABLE 1. (cont.)

CalCOFI Cruise 5405

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
127.0	47.5	26 27.3	114 58.8	HO	54 05 09	1336	139	482	2.88	100.0	43	272
127.0	50.0	26 20.5	115 11.9	HO	54 05 09	1106	143	450	3.18	100.0	26	265
127.0	55.0	26 12.5	115 26.1	HO	54 05 09	0856	136	489	2.79	100.0	58	4536
127.0	60.0	26 02.7	115 45.2	HO	54 05 09	0636	151	457	3.30	100.0	85	1516
130.0	30.0	26 27.0	113 27.8	HO	54 05 08	1018	51	288	1.76	100.0	13	222
130.0	35.0	26 19.9	113 48.7	HO	54 05 08	1256	138	421	3.27	100.0	4	62
130.0	40.0	26 08.7	114 08.6	HO	54 05 08	1516	130	489	2.66	100.0	25	351
130.0	45.0	25 58.6	114 27.6	HO	54 05 08	1821	141	455	3.10	100.0	9	324
130.0	50.0	25 49.0	114 46.0	HO	54 05 08	2036	137	457	2.99	100.0	40	292
130.0	55.0	25 39.0	115 05.0	HO	54 05 08	2256	142	476	2.97	100.0	55	58
130.0	60.0	25 28.0	115 23.3	HO	54 05 09	0116	151	442	3.42	100.0	69	570
133.0	25.0	26 04.0	112 48.3	HO	54 05 08	0558	69	296	2.33	100.0	38	91
133.0	30.0	25 54.3	113 07.9	HO	54 05 07	2246	142	471	3.02	50.0	14	20
133.0	35.0	25 48.7	113 29.2	HO	54 05 07	2021	142	459	3.09	100.0	13	6
133.0	40.0	25 40.5	113 43.9	HO	54 05 07	1826	140	463	3.03	100.0	14	11
133.0	45.0	25 25.2	114 12.5	HO	54 05 07	1516	145	446	3.25	100.0	16	42
133.0	50.0	25 17.0	114 25.8	HO	54 05 07	1211	118	502	2.34	100.0	28	109
133.0	60.0	24 55.4	114 59.2	HO	54 05 07	0756	144	441	3.26	100.0	13	223
137.0	23.0	25 36.7	112 19.2	HO	54 05 06	1008	59	244	2.41	100.0	7	344
137.0	30.0	25 21.2	112 47.6	HO	54 05 06	1311	139	429	3.25	100.0	4	6
137.0	35.0	25 10.6	113 06.7	HO	54 05 06	1531	139	442	3.15	100.0	1	210
137.0	40.0	24 55.2	113 24.9	HO	54 05 06	1801	137	500	2.74	50.0	1	266
137.0	45.0	24 46.7	113 40.8	HO	54 05 06	2026	144	451	3.19	100.0	9	360
137.0	50.0	24 37.9	114 00.8	HO	54 05 06	2241	144	437	3.30	100.0	3	156
137.0	60.0	24 16.0	114 35.0	HO	54 05 07	0246	124	509	2.43	100.0	16	30

TABLE 1. (cont.)

CalCOFI Cruise 5406

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
50.0	47.0	39 46.0	123 54.2	HO	54 06 05	0818	63	404	1.57	100.0	9	7
50.0	50.0	39 38.3	124 11.3	HO	54 06 05	1103	122	501	2.43	25.0	2	4
50.0	60.0	39 20.0	124 52.0	HO	54 06 05	1506	138	477	2.90	100.0	16	16
50.0	70.0	39 00.4	125 34.0	HO	54 06 05	2016	134	475	2.83	100.0	83	17
50.0	80.0	38 40.8	126 21.0	HO	54 06 06	0036	147	432	3.41	25.0	124	6
50.0	90.0	38 22.0	127 07.0	HO	54 06 06	0546	142	461	3.08	50.0	25	12
50.0	100.0	38 00.0	127 49.0	HO	54 06 06	0926	126	514	2.46	100.0	58	26
53.0	52.0	39 02.5	123 51.8	HO	54 06 05	0353	83	264	3.14	12.5	23	4
53.0	55.0	38 55.7	124 04.3	HO	54 06 05	0151	140	451	3.10	100.0	11	4
53.0	65.0	38 36.0	124 51.1	HO	54 06 04	2111	127	498	2.55	100.0	94	43
57.0	51.0	38 30.0	123 22.0	HO	54 06 04	0857	75	400	1.89	100.0	6	11
57.0	55.0	38 24.0	123 41.2	HO	54 06 04	1126	135	484	2.79	50.0	4	6
57.0	58.0	38 02.0	124 23.5	HO	54 06 04	1536	144	481	2.99	100.0	13	13
60.0	55.0	37 47.3	123 14.5	HO	54 06 07	1842	105	350	2.99	100.0	4	4
60.0	60.0	37 37.0	123 37.0	HO	54 06 07	1621	119	501	2.37	25.0	21	13
60.0	70.0	37 16.8	124 18.8	HO	54 06 07	0618	147	429	3.43	50.0	55	93
60.0	80.0	36 55.3	125 08.7	HO	54 06 07	0121	131	510	2.57	25.0	8	8
60.0	90.0	36 36.3	125 49.0	HO	54 06 07	0121	144	486	2.96	50.0	127	17
60.0	100.0	36 20.2	126 31.8	HO	54 06 06	2016	146	476	3.08	100.0	120	26
63.0	52.0	37 18.5	122 36.7	HO	54 06 09	1128	64	336	1.91	100.0	13	4
63.0	55.0	37 14.0	122 49.5	HO	54 06 09	1311	122	530	2.30	25.0	69	20
63.0	65.0	36 53.3	123 33.0	HO	54 06 09	1716	151	414	3.64	50.0	0	1
67.0	50.0	36 49.6	122 04.8	HO	54 06 10	0500	86	370	2.34	100.0	116	29
67.0	55.0	36 40.5	122 26.7	HO	54 06 10	0221	138	460	3.01	25.0	13	13
67.0	65.0	36 20.3	123 06.7	HO	54 06 09	2221	131	417	3.14	12.5	6	19
70.0	52.0	36 08.5	121 50.0	HO	54 06 11	1439	142	507	2.80	25.0	22	7
70.0	55.0	36 03.6	122 01.7	HO	54 06 11	1621	139	490	2.83	25.0	16	14
70.0	60.0	35 54.3	122 22.7	HO	54 06 11	1936	124	513	2.42	50.0	22	178
70.0	70.0	35 33.0	123 06.0	HO	54 06 11	2346	131	422	3.11	100.0	111	28
70.0	80.0	35 13.0	123 48.0	HO	54 06 12	0506	141	446	3.16	100.0	22	8
70.0	90.0	34 52.5	124 26.3	HO	54 06 12	0906	149	443	3.36	100.0	39	93
70.0	100.0	34 31.7	125 10.2	HO	54 06 12	1401	126	521	2.43	100.0	17	114
73.0	50.0	35 37.0	121 16.4	HO	54 06 10	1248	86	266	3.23	100.0	22	22
73.0	60.0	35 17.7	121 57.9	HO	54 06 11	0806	139	468	2.96	100.0	86	39
77.0	50.0	35 04.9	120 52.2	HO	54 06 10	1647	101	464	2.17	50.0	1	18
77.0	55.0	34 54.5	121 13.0	HO	54 06 10	1949	118	496	2.39	100.0	9	2
80.0	51.0	34 26.5	120 32.5	HO	54 06 14	0118	70	315	2.22	100.0	8	10
80.0	55.0	34 20.2	120 48.3	HO	54 06 13	2228	135	481	2.80	25.0	5	4
80.0	60.0	34 16.5	121 11.0	HO	54 06 13	1956	135	475	2.84	25.0	22	82
80.0	65.0	33 27.8	122 31.8	HO	54 06 13	1041	143	472	3.03	100.0	9	26
80.0	70.0	33 14.0	123 16.0	HO	54 06 13	0636	149	497	3.00	100.0	5	32
80.0	80.0	32 49.0	123 54.0	HO	54 06 13	0106	140	508	2.75	100.0	36	307
82.0	47.0	34 15.2	119 59.2	HO	54 06 14	0531	127	539	2.35	12.5	3	4
83.0	40.0	34 14.2	119 23.7	HO	54 06 14	0945	13	65	2.06	100.0	13	275
83.0	43.0	34 08.4	119 33.9	HO	54 06 14	0820	131	464	2.83	6.2	0	3

TABLE 1. (cont.)

CalCOFI Cruise 5406

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
83.0	48.0	33 58.3	119 55.0	HO	54 06 15	0711	104	511	2.04	100.0	7	269
83.0	51.0	33 52.0	120 08.3	HO	54 06 15	0921	68	446	1.53	100.0	8	132
83.0	55.0	33 43.7	120 25.7	HO	54 06 15	1101	140	409	3.42	6.2	2	6
83.0	60.0	33 34.0	120 45.0	HO	54 06 15	1416	148	432	3.42	25.0	96	321
83.0	70.0	33 14.2	121 27.2	HO	54 06 15	1811	133	505	2.64	25.0	87	66
83.0	80.0	32 55.7	122 07.9	HO	54 06 15	2320	128	495	2.58	100.0	82	64
83.0	90.0	32 38.3	122 51.1	HO	54 06 16	0311	130	502	2.59	100.0	60	50
85.0	39.0	33 59.8	119 04.3	HO	54 06 14	1251	118	472	2.50	100.0	40	32
85.0	45.0	33 47.0	119 31.2	HO	54 06 14	1801	109	557	1.96	100.0	56	663
85.0	50.0	33 36.8	119 51.7	HO	54 06 14	2011	150	401	3.73	50.0	27	393
85.0	55.0	33 25.7	120 13.3	HO	54 06 14	2316	147	435	3.38	25.0	16	30
85.0	60.0	33 13.7	120 31.8	HO	54 06 15	0121	135	436	3.09	12.5	23	90
87.0	35.0	33 50.8	118 38.4	HO	54 06 17	1136	139	452	3.07	100.0	93	105
87.0	40.0	33 40.4	118 58.8	HO	54 06 17	0933	135	441	3.06	100.0	43	19
87.0	45.0	33 29.8	119 18.5	HO	54 06 17	0636	126	524	2.41	25.0	8	31
87.0	50.0	33 20.6	119 40.3	HO	54 06 17	0413	57	256	2.23	6.2	1	22
87.0	55.0	33 08.0	119 59.7	HO	54 06 17	0116	134	510	2.64	25.0	30	102
87.0	60.0	33 00.0	120 21.5	HO	54 06 16	2251	126	526	2.40	25.0	68	54
87.0	80.0	32 14.5	121 42.8	HO	54 06 16	1256	126	534	2.36	100.0	75	142
87.0	90.0	32 02.9	122 27.8	HO	54 06 16	0746	131	567	2.32	100.0	44	86
90.0	28.0	33 28.2	117 47.4	HO	54 06 17	2226	131	415	3.16	50.0	18	45
90.0	30.0	33 23.8	117 55.7	HO	54 06 17	2326	125	494	2.54	50.0	86	12
90.0	33.5	33 17.4	118 10.0	HO	54 06 18	0121	119	581	2.05	100.0	246	3
90.0	37.0	33 11.0	118 23.5	HO	54 06 18	0351	110	554	1.99	100.0	105	62
90.0	41.0	33 02.7	118 39.8	HO	54 06 18	0556	123	522	2.35	100.0	104	312
90.0	45.0	32 54.5	118 56.0	HO	54 06 18	0756	126	531	2.38	100.0	48	34
90.0	50.0	32 44.3	119 17.5	HO	54 06 18	1026	134	546	2.46	50.0	10	168
90.0	55.0	32 34.8	119 36.8	HO	54 06 18	1326	136	408	3.34	100.0	143	223
90.0	60.0	32 25.0	119 57.5	HO	54 06 18	1536	132	385	3.42	100.0	250	224
90.0	70.0	32 04.7	120 36.5	HO	54 06 18	2039	130	416	3.13	50.0	157	134
90.0	80.0	31 45.0	121 19.0	HO	54 06 19	0056	134	397	3.36	100.0	367	52
93.0	27.0	32 55.4	117 18.7	HO	54 06 20	1701	130	409	3.17	50.0	65	42
93.0	30.0	32 53.0	117 32.1	HO	54 06 20	1536	108	425	2.53	50.0	69	5
93.0	35.0	32 48.2	117 53.0	HO	54 06 20	1301	130	438	2.97	100.0	119	195
93.0	45.0	32 38.2	118 37.2	HO	54 06 20	0836	113	456	2.49	100.0	154	273
93.0	50.0	32 33.3	118 58.6	HO	54 06 20	0641	134	438	3.05	100.0	38	70
93.0	55.0	32 26.2	119 21.6	HO	54 06 20	0336	128	396	3.24	12.5	40	64
93.0	60.0	32 09.5	119 40.5	HO	54 06 20	0111	130	391	3.32	50.0	88	259
93.0	70.0	31 39.0	120 13.0	HO	54 06 19	2016	116	441	2.63	100.0	40	55
97.0	30.0	32 15.5	117 09.0	CR	54 06 22	1723	48	178	2.70	100.0	26	421
97.0	32.0	32 11.5	117 17.0	CR	54 06 22	1546	132	514	2.57	100.0	58	228
97.0	36.0	32 03.0	117 33.5	CR	54 06 22	1341	141	427	3.30	50.0	29	59
97.0	40.0	31 51.0	117 49.5	CR	54 06 22	1031	138	487	2.84	100.0	48	456
97.0	45.0	31 43.0	118 09.5	CR	54 06 22	0846	139	509	2.73	100.0	126	1881
97.0	50.0	31 35.0	118 30.0	CR	54 06 22	0556	138	476	2.89	100.0	67	30

TABLE 1. (cont.)

CalCOFI Cruise 5406												
Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
97.0	55.0	31 26.0	118 47.0	CR	54 06 22	0346	135	498	2.72	100.0	74	89
97.0	60.0	31 15.5	119 09.0	CR	54 06 22	0046	132	511	2.58	100.0	24	94
97.0	70.0	30 55.0	119 50.0	CR	54 06 21	2001	135	504	2.69	100.0	10	107
97.0	80.0	30 35.5	120 31.0	CR	54 06 21	1456	134	493	2.72	100.0	12	36
97.0	90.0	30 15.0	121 12.5	CR	54 06 21	1026	139	538	2.58	100.0	43	102
100.0	29.0	31 42.0	116 43.5	CR	54 06 19	1958	84	306	2.74	100.0	59	366
100.0	30.0	31 40.5	116 46.5	CR	54 06 19	2046	140	523	2.67	100.0	167	205
100.0	35.0	31 31.0	117 07.0	CR	54 06 19	2306	139	484	2.88	100.0	124	109
100.0	40.0	31 21.0	117 27.5	CR	54 06 20	0136	144	467	3.08	100.0	133	176
100.0	45.0	31 13.0	117 47.0	CR	54 06 20	0356	146	482	3.02	100.0	258	748
100.0	50.0	31 04.5	118 07.0	CR	54 06 20	0626	137	484	2.83	100.0	38	45
100.0	55.0	30 56.5	118 23.5	CR	54 06 20	1006	138	498	2.77	100.0	59	64
100.0	60.0	30 45.5	118 44.0	CR	54 06 20	1241	127	515	2.48	100.0	157	53
100.0	70.0	30 21.0	119 27.0	CR	54 06 20	1751	140	477	2.93	100.0	34	35
100.0	80.0	30 01.0	120 07.0	CR	54 06 20	2301	143	471	3.03	100.0	27	100
100.0	90.0	29 40.5	120 47.0	CR	54 06 21	0321	133	568	2.34	100.0	50	120
103.0	30.0	31 05.5	116 25.0	CR	54 06 19	1448	57	212	2.70	100.0	20	52
103.0	35.0	30 55.5	116 46.0	CR	54 06 19	1221	137	471	2.92	100.0	54	53
103.0	40.0	30 45.5	117 05.5	CR	54 06 19	0921	141	489	2.89	100.0	32	50
103.0	45.0	30 36.5	117 24.5	CR	54 06 19	0701	139	472	2.95	100.0	190	301
103.0	50.0	30 23.0	117 44.0	CR	54 06 19	0426	145	462	3.14	100.0	49	48
103.0	55.0	30 14.0	118 04.5	CR	54 06 19	0156	144	478	3.02	100.0	167	63
103.0	60.0	30 04.5	118 24.0	CR	54 06 18	2251	136	511	2.66	100.0	134	30
103.0	70.0	29 43.5	119 03.5	CR	54 06 18	1801	138	476	2.91	100.0	46	51
103.0	80.0	29 25.5	119 46.0	CR	54 06 18	1246	137	492	2.79	100.0	20	110
107.0	32.0	30 26.0	116 11.0	CR	54 06 17	0946	142	490	2.90	100.0	64	28
107.0	35.0	30 21.5	116 23.0	CR	54 06 17	1126	144	442	3.26	100.0	4	27
107.0	40.0	30 10.0	116 43.0	CR	54 06 17	1426	142	461	3.07	100.0	58	158
107.0	45.0	30 00.0	117 03.0	CR	54 06 17	1646	141	460	3.07	100.0	36	354
107.0	50.0	29 49.0	117 23.0	CR	54 06 17	1921	136	472	2.87	100.0	53	46
107.0	55.0	29 39.0	117 42.5	CR	54 06 17	2231	143	469	3.06	100.0	158	88
107.0	60.0	29 29.5	118 02.5	CR	54 06 18	0106	129	538	2.40	100.0	193	40
107.0	70.0	29 11.0	118 42.0	CR	54 06 18	0451	143	447	3.21	100.0	45	158
110.0	33.0	29 50.5	115 52.5	CR	54 06 16	1537	144	473	2.30	100.0	7	2
110.0	35.0	29 46.5	116 00.0	CR	54 06 16	1701	141	466	2.72	100.0	34	358
110.0	40.0	29 36.0	116 21.0	CR	54 06 16	1921	140	468	2.98	100.0	36	14
110.0	45.0	29 26.5	116 39.5	CR	54 06 16	2256	136	498	3.04	100.0	226	99
110.0	50.0	29 17.5	116 57.0	CR	54 06 17	0110	66	289	3.03	100.0	164	92
110.0	55.0	29 06.0	117 20.0	CR	54 06 15	2330	140	551	2.55	100.0	70	99
110.0	60.0	28 56.5	117 40.0	CR	54 06 15	2016	136	498	2.74	100.0	87	214
110.0	70.0	28 37.0	118 18.0	CR	54 06 15	1551	143	473	3.03	100.0	73	69
110.0	80.0	28 14.0	118 57.5	CR	54 06 15	1021	138	489	2.83	100.0	33	147
113.0	30.0	29 21.5	115 19.0	CR	54 06 14	0332	65	287	2.27	50.0	33	11
113.0	32.5	29 17.5	115 27.0	CR	54 06 14	0442	105	384	2.74	50.0	33	17
113.0	35.0	29 11.0	115 38.5	CR	54 06 14	0606	138	486	2.83	100.0	9	772

TABLE 1. (cont.)

CalCOFI Cruise 5406

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
113.0	37.5	29 07.0	115 48.5	CR	54 06 14	0821	143	462	3.10	100.0	25	17
113.0	40.0	29 01.5	115 58.5	CR	54 06 14	0951	134	518	2.58	100.0	38	23
113.0	42.5	28 56.5	116 08.0	CR	54 06 14	1126	138	490	2.81	100.0	162	188
113.0	45.0	28 52.0	116 17.0	CR	54 06 14	1301	132	514	2.56	100.0	140	234
113.0	47.5	28 47.0	116 27.0	CR	54 06 14	1431	133	516	2.57	100.0	209	120
113.0	50.0	28 42.0	116 37.0	CR	54 06 14	1601	139	518	2.68	100.0	32	37
113.0	55.0	28 32.0	116 56.5	CR	54 06 14	2046	142	463	3.08	100.0	150	57
113.0	60.0	28 22.5	117 16.0	CR	54 06 14	2321	141	496	2.84	100.0	183	57
113.0	70.0	28 02.0	117 56.5	CR	54 06 15	0341	139	493	2.82	100.0	113	54
117.0	26.0	28 56.0	114 41.0	CR	54 06 13	2153	71	261	2.71	25.0	2	79
117.0	28.0	28 52.0	114 48.5	CR	54 06 13	2028	66	219	3.03	50.0	20	1
117.0	30.0	28 48.0	114 56.5	CR	54 06 13	1858	81	329	2.45	100.0	40	287
117.0	32.5	28 43.0	115 06.5	CR	54 06 13	1726	134	462	2.91	100.0	29	201
117.0	35.0	28 31.0	115 17.0	CR	54 06 13	1551	144	515	2.79	100.0	31	36
117.0	37.5	28 31.0	115 27.0	CR	54 06 13	1406	143	522	2.73	100.0	36	8
117.0	40.0	28 28.0	115 36.0	CR	54 06 13	0225	140	529	2.64	100.0	22	47
117.0	42.5	28 23.0	115 45.5	CR	54 06 13	0050	148	511	2.89	100.0	52	29
117.0	45.0	28 18.0	115 55.5	CR	54 06 12	2316	141	473	2.98	100.0	89	89
117.0	47.5	28 11.0	116 04.0	CR	54 06 12	2111	141	469	2.99	100.0	56	221
117.0	50.0	28 04.5	116 12.5	CR	54 06 12	1936	146	480	3.05	100.0	69	230
117.0	55.0	27 55.0	116 32.0	CR	54 06 12	1701	141	444	3.18	100.0	42	156
117.0	60.0	27 41.0	116 58.5	CR	54 06 12	1156	137	498	3.41	100.0	7	5
120.0	70.0	27 24.0	117 30.5	CR	54 06 12	0741	149	436	3.41	100.0	26	122
120.0	25.0	28 23.0	114 14.5	CR	54 06 09	1144	34	145	2.33	100.0	9	751
120.0	27.5	28 18.0	114 24.0	CR	54 06 09	1318	61	256	2.38	100.0	16	937
120.0	30.0	28 13.0	114 34.0	CR	54 06 09	1442	84	281	2.98	100.0	18	2554
120.0	32.5	28 07.5	114 44.5	CR	54 06 09	1557	69	258	2.67	100.0	28	5001
120.0	35.0	28 02.5	114 55.0	CR	54 06 09	1728	70	249	2.83	100.0	31	1282
120.0	37.5	27 58.5	115 03.0	CR	54 06 09	1853	62	238	2.63	100.0	38	39
120.0	40.0	27 55.5	115 16.0	CR	54 06 10	1849	36	161	2.16	100.0	0	75
120.0	42.5	27 48.0	115 23.0	CR	54 06 10	1956	135	548	2.47	100.0	22	1258
120.0	45.0	27 42.0	115 33.0	CR	54 06 10	2126	135	511	2.66	100.0	41	162
120.0	47.5	27 37.5	115 42.0	CR	54 06 10	2256	135	506	2.66	100.0	91	118
120.0	50.0	27 33.0	115 52.0	CR	54 06 11	0021	140	487	2.87	100.0	55	813
120.0	55.0	27 22.5	116 12.0	CR	54 06 11	0406	134	500	2.69	100.0	229	352
120.0	60.0	27 13.0	116 32.0	CR	54 06 11	0636	125	512	2.44	100.0	55	733
120.0	70.0	26 56.0	117 09.0	CR	54 06 11	1101	143	446	3.20	100.0	11	265
120.0	80.0	26 32.0	117 49.0	CR	54 06 11	1646	141	464	3.05	100.0	34	652
120.0	90.0	26 12.0	118 27.0	CR	54 06 11	2106	143	441	3.24	100.0	29	348
123.0	37.0	27 24.0	114 40.0	CR	54 06 09	0102	63	295	2.12	100.0	13	36
123.0	40.0	27 18.0	114 52.0	CR	54 06 08	2236	125	580	2.15	100.0	44	87
123.0	42.5	27 13.0	115 01.5	CR	54 06 08	2106	138	530	2.61	100.0	31	121
123.0	45.0	27 08.0	115 11.0	CR	54 06 08	1931	144	461	3.13	100.0	184	407
123.0	47.5	27 03.0	115 21.0	CR	54 06 08	1801	141	486	2.91	100.0	32	238
123.0	50.0	26 58.0	115 30.5	CR	54 06 08	1621	137	513	2.68	100.0	38	185

TABLE 1. (cont.)

CalCOFI Cruise 5406

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
123.0	55.0	26 47.5	115 50.0	CR	54 06 08	1356	147	482	3.05	100.0	42	529
123.0	60.0	26 37.0	116 09.5	CR	54 06 08	1051	142	491	2.88	100.0	34	91
127.0	34.0	26 55.0	114 06.0	CR	54 06 07	1248	66	217	3.02	100.0	6	96
127.0	37.0	26 49.5	114 17.0	CR	54 06 07	1431	148	308	4.81	100.0	16	95
127.0	42.5	26 38.5	114 38.0	CR	54 06 07	1801	140	433	3.23	100.0	11	62
127.0	45.0	26 33.0	114 48.0	CR	54 06 07	1935	140	477	2.94	100.0	142	669
127.0	47.5	26 27.5	114 58.0	CR	54 06 07	2111	141	491	2.87	100.0	66	704
127.0	50.0	26 22.0	115 07.5	CR	54 06 07	2246	128	553	2.31	100.0	42	121
127.0	55.0	26 10.5	115 27.0	CR	54 06 08	0216	141	478	2.94	100.0	51	66
127.0	60.0	26 01.0	115 47.5	CR	54 06 08	0511	136	512	2.65	100.0	104	58
130.0	30.0	26 29.0	113 29.5	CR	54 06 07	0743	56	252	2.24	100.0	11	696
130.0	35.0	26 17.0	113 48.0	CR	54 06 07	0506	141	440	3.20	100.0	8	48
130.0	40.0	26 08.0	114 09.5	CR	54 06 07	0106	139	497	2.80	100.0	11	85
130.0	45.0	25 58.5	114 27.0	CR	54 06 06	2236	145	471	3.09	100.0	111	1163
130.0	50.0	25 50.0	114 46.5	CR	54 06 06	2000	141	491	2.86	100.0	37	1700
130.0	55.0	25 40.0	115 07.0	CR	54 06 06	1716	137	503	2.73	100.0	35	1800
133.0	60.0	25 29.0	115 27.0	CR	54 06 06	1406	135	494	2.73	100.0	5	95
133.0	25.0	26 04.0	112 50.0	CR	54 06 05	1532	70	285	2.45	6.2	0	22
133.0	30.0	25 54.0	113 07.0	CR	54 06 05	1741	136	498	2.72	100.0	396	400
133.0	35.0	25 44.0	113 26.5	CR	54 06 05	2031	140	440	3.19	25.0	0	1
133.0	40.0	25 34.0	114 45.0	CR	54 06 05	2306	132	487	2.72	100.0	39	404
133.0	45.0	25 23.5	114 04.0	CR	54 06 06	0141	139	488	2.86	100.0	51	519
133.0	50.0	25 12.5	114 22.5	CR	54 06 06	0421	129	484	2.66	100.0	39	375
137.0	23.0	25 33.5	112 20.5	CR	54 06 05	1013	51	274	1.85	100.0	97	273
137.0	30.0	25 20.0	112 45.5	CR	54 06 05	0641	120	485	2.47	100.0	66	36
137.0	35.0	25 04.5	113 03.0	CR	54 06 05	0336	148	449	3.29	100.0	31	6
137.0	40.0	24 56.0	113 22.5	CR	54 06 05	0016	139	444	3.13	100.0	22	120
137.0	45.0	24 47.5	113 42.0	CR	54 06 04	2121	143	489	2.93	100.0	16	64
137.0	50.0	24 39.0	114 01.5	CR	54 06 04	1846	132	504	2.62	100.0	55	289

TABLE 1. (cont.)

CalCOFI Cruise 5407												
Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
60.0	55.0	37 46.5	123 17.0	CR	54 07 10	1946	128	515	2.48	50.0	1	0
60.0	60.0	37 37.0	123 37.0	CR	54 07 10	2206	128	448	2.86	25.0	7	1
60.0	70.0	37 16.0	124 22.0	CR	54 07 11	0406	132	511	2.58	25.0	16	17
60.0	80.0	36 56.0	125 04.0	CR	54 07 11	0821	135	458	2.96	100.0	57	28
60.0	90.0	36 35.5	125 47.0	CR	54 07 11	1359	131	494	2.65	100.0	28	74
60.0	100.0	36 17.0	126 30.0	CR	54 07 11	1835	126	539	2.33	100.0	22	8
63.0	52.0	37 18.0	122 36.0	CR	54 07 10	1424	44	206	2.11	100.0	0	6
63.0	55.0	37 14.0	122 50.0	CR	54 07 10	1236	133	497	2.67	25.0	15	3
67.0	50.0	36 49.0	122 05.0	CR	54 07 09	2249	70	282	2.49	25.0	2	9
67.0	55.0	36 38.5	122 25.5	CR	54 07 10	0056	123	506	2.43	25.0	20	39
67.0	65.0	36 19.0	123 09.0	CR	54 07 10	0526	118	520	2.28	50.0	42	16
70.0	52.0	36 08.0	121 49.0	CR	54 07 13	0305	144	478	3.00	25.0	3	1
70.0	55.0	36 02.0	122 01.5	CR	54 07 13	0026	139	482	2.87	50.0	10	9
70.0	60.0	35 52.0	122 23.0	CR	54 07 12	2156	129	500	2.59	25.0	0	0
70.0	70.0	35 33.0	123 06.0	CR	54 07 12	1616	120	544	2.21	100.0	37	20
70.0	80.0	35 11.5	123 47.5	CR	54 07 12	1049	134	505	2.65	100.0	19	77
77.0	50.0	35 04.0	120 52.0	CR	54 07 14	0237	123	398	3.08	25.0	64	0
77.0	55.0	34 54.5	121 13.0	CR	54 07 13	2316	144	490	2.93	25.0	99	14
77.0	65.0	34 34.0	121 55.0	CR	54 07 13	1828	134	508	2.63	25.0	26	33
80.0	51.0	34 27.5	120 30.5	CR	54 07 14	0729	33	161	2.05	100.0	212	321
80.0	55.0	34 19.5	120 48.5	CR	54 07 14	0930	124	520	2.38	100.0	29	61
80.0	60.0	34 09.0	121 08.5	CR	54 07 14	1711	118	519	2.28	25.0	12	12
80.0	70.0	33 49.0	121 50.0	CR	54 07 14	2255	134	503	2.49	50.0	7	20
80.0	80.0	33 29.0	122 32.0	CR	54 07 14	0337	133	512	2.56	100.0	49	68
80.0	90.0	33 09.0	123 13.0	CR	54 07 15	0549	128	550	2.60	100.0	34	7
82.0	47.0	34 15.0	119 58.0	CR	54 07 16	1220	13	61	2.11	100.0	146	396
83.0	40.0	34 08.0	119 34.0	CR	54 07 16	1056	135	464	2.90	100.0	20	483
83.0	43.0	34 08.0	119 34.0	CR	54 07 16	1056	135	464	2.90	100.0	79	42
83.0	48.0	33 58.5	119 55.0	CR	54 07 16	0254	68	282	2.42	100.0	297	1087
83.0	51.0	33 52.0	120 08.5	CR	54 07 16	0029	86	454	1.89	100.0	133	216
83.0	55.0	33 40.0	120 18.5	CR	54 07 15	2106	127	553	2.30	25.0	14	4
83.0	60.0	33 34.0	120 45.0	CR	54 07 15	1715	147	478	3.07	25.0	15	24
85.0	40.0	33 57.0	119 10.5	CR	54 07 16	1634	128	501	2.55	100.0	128	98
85.0	45.0	33 47.0	119 31.0	CR	54 07 16	1846	128	509	2.51	100.0	66	1094
85.0	50.0	33 37.0	119 52.0	CR	54 07 16	2156	134	474	2.83	100.0	43	271
85.0	55.0	33 27.0	120 12.5	CR	54 07 17	0038	122	477	2.57	50.0	27	11
85.0	60.0	33 15.5	120 32.0	CR	54 07 17	0416	147	477	2.57	50.0	41	35
87.0	35.0	33 50.0	118 37.5	CR	54 07 17	2101	118	523	3.57	50.0	44	108
87.0	40.0	33 40.5	118 59.0	CR	54 07 17	1806	116	534	2.26	25.0	9	32
87.0	45.0	33 30.0	119 19.0	CR	54 07 17	1526	139	345	2.17	25.0	64	419
87.0	50.0	33 20.0	119 39.5	CR	54 07 17	1305	48	193	4.03	100.0	11	1284
87.0	55.0	33 10.0	120 00.5	CR	54 07 17	1026	148	413	2.46	100.0	5	59
87.0	60.0	32 56.5	120 21.0	CR	54 07 17	0657	145	455	3.19	25.0	3	7
90.0	28.0	33 28.5	117 47.0	CR	54 07 18	0201	115	450	2.56	100.0	62	51
90.0	30.0	33 24.0	117 55.5	CR	54 07 18	0356	138	440	3.13	100.0	143	12

TABLE 1. (cont.)

CalCOFI Cruise 5407

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
90.0	37.0	33 11.0	118 22.0	CR	54 07 18	0813	146	351	4.17	100.0	50	427
90.0	45.0	32 54.5	118 56.5	CR	54 07 19	1226	142	443	3.19	100.0	6	7
90.0	55.0	32 35.0	119 37.0	CR	54 07 19	1642	143	413	3.46	100.0	12	56
90.0	60.0	32 25.0	119 57.5	CR	54 07 19	2016	134	411	3.26	50.0	45	125
90.0	70.0	32 07.0	120 34.0	CR	54 07 20	0101	140	479	2.93	25.0	37	3
93.0	27.0	32 56.0	117 19.0	CR	54 07 21	0026	118	424	2.79	25.0	194	381
93.0	30.0	32 50.0	117 31.5	CR	54 07 20	2149	130	547	2.38	50.0	81	302
93.0	35.0	32 40.0	117 52.0	CR	54 07 20	1916	132	396	3.33	100.0	12	3
93.0	40.0	32 30.0	118 12.5	CR	54 07 20	1649	159	352	4.52	25.0	7	3
93.0	45.0	32 20.0	118 33.0	CR	54 07 20	1418	124	340	3.65	25.0	4	9
93.0	50.0	32 11.0	118 53.5	CR	54 07 20	1053	151	354	4.27	100.0	20	234
97.0	30.0	32 14.5	117 09.5	CR	54 07 21	0513	49	138	3.54	25.0	56	211
97.0	32.0	32 10.5	117 17.0	CR	54 07 21	0611	138	489	2.82	100.0	5	7
97.0	40.0	31 57.0	117 50.5	CR	54 07 21	0950	114	432	2.64	100.0	14	3
97.0	45.0	31 47.0	118 11.0	CR	54 07 21	1311	117	474	2.47	100.0	22	49
97.0	50.0	31 37.0	118 31.5	CR	54 07 21	1539	135	381	3.53	100.0	5	8
100.0	29.0	31 42.2	116 43.4	HO	54 07 18	0721	115	475	2.43	100.0	18	39
100.0	30.0	31 41.5	116 46.8	HO	54 07 18	0631	125	530	2.37	100.0	59	184
100.0	35.0	31 35.0	117 09.5	HO	54 07 18	0346	135	489	2.76	100.0	13	2
100.0	40.0	31 23.5	117 29.1	HO	54 07 18	0126	137	495	2.76	100.0	29	35
100.0	45.0	31 13.3	117 48.8	HO	54 07 17	2317	113	333	3.38	100.0	14	40
100.0	50.0	31 02.5	118 08.5	HO	54 07 17	1956	137	468	2.93	100.0	33	42
100.0	60.0	30 42.0	118 49.5	HO	54 07 17	1526	139	475	2.92	100.0	23	106
100.0	70.0	30 18.4	119 21.5	HO	54 07 17	1011	142	453	3.14	100.0	10	53
100.0	80.0	30 02.2	119 54.0	HO	54 07 17	0646	137	477	2.87	100.0	33	115
103.0	30.0	31 05.9	116 25.2	HO	54 07 16	0948	68	204	3.33	100.0	43	1045
103.0	35.0	30 56.0	116 45.6	HO	54 07 16	1216	134	478	2.80	100.0	11	64
103.0	40.0	30 45.1	117 07.0	HO	54 07 16	1451	145	431	3.36	100.0	6	21
107.0	32.0	30 27.3	116 11.0	HO	54 07 16	0546	150	432	3.46	100.0	70	16
107.0	35.0	30 20.9	116 23.5	HO	54 07 16	0321	140	444	3.15	100.0	7	0
107.0	40.0	30 10.5	116 43.5	HO	54 07 16	0101	148	449	3.30	100.0	34	4
110.0	33.0	29 51.8	115 54.5	HO	54 07 15	0111	154	418	3.68	100.0	12	188
110.0	35.0	29 46.5	116 00.0	HO	54 07 15	0246	136	466	2.92	100.0	148	21
110.0	40.0	29 36.5	116 16.0	HO	54 07 15	0511	132	486	2.72	100.0	82	55
110.0	45.0	29 27.5	116 34.1	HO	54 07 15	0806	149	441	3.37	100.0	85	55
110.0	50.0	29 18.0	116 52.3	HO	54 07 15	1006	153	439	3.49	100.0	21	56
110.0	60.0	28 55.8	117 45.0	HO	54 07 15	1455	147	467	3.14	100.0	12	83
113.0	30.0	29 23.1	115 18.5	HO	54 07 14	2023	50	262	1.90	100.0	12	16
113.0	35.0	29 10.6	115 41.5	HO	54 07 14	1611	152	430	3.53	100.0	33	18
113.0	40.0	29 02.1	115 58.0	HO	54 07 14	1356	144	476	3.02	100.0	29	26
117.0	26.0	28 55.4	114 41.5	HO	54 07 14	0228	63	263	2.40	100.0	18	385
117.0	30.0	28 45.8	115 00.8	HO	54 07 14	0412	104	347	2.98	50.0	6	98
117.0	35.0	28 36.9	115 18.2	HO	54 07 14	0621	147	406	3.62	100.0	28	38
117.0	40.0	28 27.0	115 37.0	HO	54 07 14	0821	139	458	3.04	100.0	10	206
120.0	25.0	28 23.0	114 14.5	HO	54 07 13	2155	65	191	3.41	100.0	19	1088

TABLE 1. (cont.)

CalCOFI Cruise 5407												
Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
120.0	30.0	28 13.8	114 33.6	HO	54 07 13	1943	85	226	3.76	100.0	8	1883
120.0	35.0	28 03.2	114 53.2	HO	54 07 13	1710	70	225	3.14	100.0	44	394
120.0	45.0	27 43.0	115 32.8	HO	54 07 13	0501	147	384	3.83	100.0	23	72
120.0	50.0	27 35.4	115 37.1	HO	54 07 13	0151	141	407	3.46	50.0	11	111
120.0	60.0	27 15.0	116 25.0	HO	54 07 12	2106	145	452	3.21	100.0	61	599
120.0	70.0	26 55.0	117 24.2	HO	54 07 12	1451	141	468	3.02	100.0	5	105
120.0	80.0	26 39.9	117 49.5	HO	54 07 12	1141	143	447	3.20	100.0	42	384
120.0	90.0	26 12.2	118 24.1	HO	54 07 12	0635	140	469	2.98	100.0	12	575
123.0	37.0	27 24.0	114 39.7	HO	54 07 10	2333	51	200	2.56	100.0	41	521
123.0	40.0	27 18.0	114 51.5	HO	54 07 11	0106	138	485	2.84	100.0	54	101
123.0	45.0	27 08.2	115 10.8	HO	54 07 11	0406	137	478	2.86	100.0	187	66
123.0	50.0	26 58.0	115 30.5	HO	54 07 11	1446	146	457	3.20	100.0	61	25
127.0	34.0	26 55.3	114 06.0	HO	54 07 10	1848	52	238	2.21	100.0	49	212
127.0	40.0	26 45.9	114 32.5	HO	54 07 10	1556	142	491	2.90	100.0	22	63
127.0	45.0	26 34.2	114 48.7	HO	54 07 10	1341	156	469	3.32	100.0	31	74
127.0	50.0	26 24.5	115 12.1	HO	54 07 10	0951	137	473	2.90	100.0	102	148
130.0	30.0	26 29.8	113 29.2	HO	54 07 09	1128	82	218	3.78	100.0	3	558
130.0	35.0	26 16.3	113 52.8	HO	54 07 09	1406	114	552	2.07	100.0	38	42
130.0	40.0	26 07.9	114 06.8	HO	54 07 09	1606	138	483	2.85	100.0	62	207
130.0	45.0	25 59.0	114 26.9	HO	54 07 09	1951	120	446	2.68	100.0	100	303
130.0	50.0	25 49.0	114 46.0	HO	54 07 09	2211	145	469	3.08	100.0	95	274
130.0	60.0	25 29.0	115 24.0	HO	54 07 10	0226	146	451	3.25	100.0	54	376
133.0	25.0	26 04.5	112 48.0	HO	54 07 09	0707	84	302	2.80	50.0	68	1571
133.0	30.0	25 53.6	113 08.8	HO	54 07 09	0356	131	456	2.87	100.0	53	168
133.0	35.0	25 43.6	113 28.0	HO	54 07 09	0121	151	441	3.43	100.0	273	85
133.0	40.0	25 35.3	113 43.9	HO	54 07 08	2306	138	481	2.87	50.0	45	137
137.0	23.0	25 34.2	112 18.7	HO	54 07 08	1308	69	271	2.54	50.0	4	1
137.0	30.0	25 20.0	112 45.5	HO	54 07 08	1731	139	479	2.90	50.0	30	9

TABLE 1. (cont.)

CalCOFI Cruise 5408

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
60.0	55.0	37 47.5	123 14.6	SB	54 08 31	1212	112	314	3.57	25.0	12	41
60.0	60.0	37 36.0	123 38.3	SB	54 08 31	1456	142	516	2.74	50.0	4	0
60.0	70.0	37 17.0	124 20.0	SB	54 08 31	2006	138	448	3.07	50.0	13	1
60.0	80.0	36 58.8	125 09.6	SB	54 09 01	0001	139	500	2.77	100.0	27	13
60.0	90.0	36 36.0	125 57.8	SB	54 09 01	0601	131	501	2.61	100.0	7	5
60.0	100.0	36 25.5	126 28.0	SB	54 09 01	0846	122	584	2.10	50.0	12	34
63.0	52.0	37 19.7	122 32.9	SB	54 08 27	1616	49	142	3.47	100.0	20	494
63.0	55.0	37 12.9	122 48.8	SB	54 08 27	1326	149	458	3.27	25.0	8	14
67.0	50.0	36 45.8	122 04.0	SB	54 08 27	0001	144	564	2.55	25.0	3	31
67.0	55.0	36 40.9	122 28.0	SB	54 08 27	0311	136	548	2.48	25.0	5	3
67.0	65.0	36 20.2	123 12.3	SB	54 08 27	0839	131	514	2.55	50.0	6	2
70.0	52.0	36 07.5	121 50.8	SB	54 09 02	1452	130	569	2.29	100.0	1	2
70.0	55.0	36 03.0	122 01.2	SB	54 09 02	1226	127	494	2.56	100.0	0	1
70.0	60.0	35 53.0	122 22.0	SB	54 09 02	0926	141	472	2.99	50.0	2	3
70.0	70.0	35 33.0	123 05.5	SB	54 09 02	0456	106	650	1.64	12.5	1	0
70.0	80.0	35 14.0	123 44.5	SB	54 09 02	0004	136	528	2.57	100.0	11	3
73.0	50.0	35 37.2	121 17.5	SB	54 09 03	0127	109	370	2.94	25.0	2	1
73.0	55.0	35 26.8	121 39.0	SB	54 09 02	2246	143	412	3.48	12.5	4	1
73.0	60.0	35 16.7	121 58.5	SB	54 09 02	1946	153	399	3.83	25.0	9	0
77.0	50.0	35 03.8	120 56.0	SB	54 09 03	0516	148	477	3.11	50.0	2	5
77.0	55.0	34 53.5	121 20.7	SB	54 09 03	0736	143	478	3.00	12.5	2	0
77.0	65.0	34 38.5	121 54.5	SB	54 09 03	1156	137	509	2.70	100.0	7	0
80.0	51.0	34 25.7	120 33.5	SB	54 09 05	0207	117	436	2.68	100.0	9	25
80.0	55.0	34 16.5	120 50.3	SB	54 09 04	2314	147	523	2.81	25.0	16	5
80.0	60.0	34 06.0	121 12.0	SB	54 09 04	2036	143	483	2.97	50.0	15	6
80.0	70.0	33 48.2	121 51.0	SB	54 09 04	1531	138	546	2.52	100.0	4	4
80.0	80.0	33 30.5	122 30.0	SB	54 09 04	1151	137	495	2.76	100.0	4	1
80.0	90.0	33 05.0	123 15.0	SB	54 09 04	0526	143	512	2.79	100.0	10	15
80.0	100.0	32 49.5	123 54.0	SB	54 09 04	0101	141	475	2.98	100.0	19	33
82.0	47.0	34 15.0	119 59.0	SB	54 09 05	0541	132	482	2.74	100.0	15	224
83.0	40.0	34 13.8	119 22.5	SB	54 09 05	1044	19	102	1.87	100.0	7	35
83.0	43.0	34 08.0	119 35.5	SB	54 09 05	0846	132	489	2.70	100.0	16	75
83.0	48.0	33 57.5	119 54.8	SB	54 09 05	1412	97	369	2.64	100.0	11	50
83.0	51.0	33 51.5	120 08.0	SB	54 09 05	1541	129	564	2.29	100.0	26	13
83.0	55.0	33 43.5	120 25.0	SB	54 09 05	1752	151	453	3.34	100.0	11	46
83.0	60.0	33 34.5	120 46.5	SB	54 09 05	2026	147	463	3.17	100.0	16	4
85.0	39.0	33 59.2	119 04.3	SB	54 09 06	1146	140	514	2.73	100.0	52	11
85.0	40.0	33 57.8	119 09.2	SB	54 09 06	1051	109	668	1.64	100.0	5	5
85.0	45.0	33 49.0	119 32.5	SB	54 09 06	0746	128	531	2.41	100.0	11	0
85.0	50.0	33 36.5	119 55.0	SB	54 09 06	0506	129	542	2.37	100.0	9	0
85.0	55.0	33 27.0	120 16.0	SB	54 09 06	0156	136	513	2.65	100.0	15	1
85.0	60.0	33 19.2	120 35.5	SB	54 09 06	2326	147	461	3.19	100.0	25	5
87.0	35.0	33 49.0	118 37.5	SB	54 09 06	1446	137	477	2.88	100.0	27	5
87.0	40.0	33 39.5	118 59.5	SB	54 09 06	1701	144	466	3.10	100.0	15	5
87.0	45.0	33 29.5	119 20.0	SB	54 09 06	1946	128	511	2.51	100.0	14	3

TABLE 1. (cont.)

CalCOFI Cruise 5408

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
87.0	50.0	33 20.6	119 40.2	SB	54 09 06	2218	53	224	2.37	100.0	34	901
87.0	55.0	33 10.2	120 02.7	SB	54 09 07	0100	139	536	2.60	100.0	8	16
87.0	60.0	32 58.6	120 28.4	SB	54 09 07	0336	133	537	2.47	100.0	17	16
90.0	28.0	33 28.5	117 45.0	SB	54 09 08	0909	26	195	1.33	100.0	31	69
90.0	30.0	33 23.5	117 54.2	SB	54 09 08	0736	123	551	2.23	100.0	41	9
90.0	37.0	33 10.4	118 22.8	SB	54 09 08	0411	141	504	2.79	100.0	29	24
90.0	45.0	32 57.0	118 50.6	SB	54 09 08	0111	134	497	2.69	100.0	11	26
90.0	55.0	32 28.3	119 39.0	SB	54 09 07	1936	143	478	2.99	100.0	11	4
90.0	60.0	32 20.4	119 56.1	SB	54 09 07	1716	140	516	2.71	100.0	2	9
90.0	70.0	32 05.0	120 42.0	SB	54 09 07	1111	134	535	2.51	100.0	4	26
93.0	27.0	32 55.0	117 17.7	SB	54 09 08	1303	47	249	1.88	100.0	62	33
93.0	30.0	32 50.0	117 30.3	SB	54 09 08	1436	140	548	2.55	100.0	25	6
93.0	35.0	32 39.8	117 51.0	SB	54 09 08	1726	129	483	2.68	100.0	17	11
93.0	40.0	32 30.0	118 11.7	SB	54 09 08	1946	140	460	3.04	100.0	3	2
93.0	45.0	32 20.0	118 33.0	SB	54 09 08	2211	117	537	2.19	100.0	6	8
93.0	50.0	32 09.6	118 55.5	SB	54 09 09	0036	134	454	2.95	100.0	8	32
97.0	30.0	32 14.1	117 07.0	SB	54 09 09	1633	68	215	3.16	100.0	40	578
97.0	32.0	32 08.5	117 11.0	SB	54 09 09	1501	133	488	2.73	100.0	9	1
97.0	40.0	31 54.6	117 46.5	SB	54 09 09	1021	141	497	2.85	100.0	8	27
97.0	45.0	31 45.3	118 16.0	SB	54 09 09	0716	142	464	3.06	100.0	2	24
97.0	50.0	31 35.5	118 34.0	SB	54 09 09	0446	128	518	2.48	100.0	17	10
100.0	29.0	31 42.0	116 43.0	CR	54 09 01	1118	70	247	2.82	100.0	15	45
100.0	30.0	31 40.5	116 46.5	CR	54 09 01	1021	138	477	2.89	100.0	39	49
100.0	35.0	31 29.0	117 05.0	CR	54 09 01	0816	139	438	3.19	100.0	15	27
100.0	40.0	31 22.5	117 23.5	CR	54 09 01	0621	140	477	2.94	100.0	14	26
100.0	45.0	31 11.5	117 44.5	CR	54 09 01	0351	142	478	2.97	100.0	49	120
100.0	50.0	31 01.0	118 06.0	CR	54 09 01	0026	135	502	2.69	100.0	35	48
100.0	60.0	30 40.5	118 47.0	CR	54 08 31	1946	138	475	2.91	100.0	85	219
100.0	70.0	30 20.5	119 28.0	CR	54 08 31	1426	139	465	2.98	100.0	91	69
103.0	30.0	31 05.0	116 25.5	CR	54 08 30	1913	52	240	2.17	100.0	59	21
103.0	35.0	30 55.0	116 45.5	CR	54 08 30	2141	138	456	3.02	100.0	137	25
103.0	40.0	30 46.0	117 04.0	CR	54 08 31	0011	140	470	2.97	100.0	17	25
107.0	32.0	30 25.7	116 11.0	CR	54 08 30	1421	142	461	3.07	100.0	57	34
107.0	35.0	30 20.5	116 23.5	CR	54 08 30	1211	135	494	2.74	100.0	27	25
107.0	40.0	30 11.0	116 42.0	CR	54 08 30	0956	148	414	3.57	100.0	63	3
110.0	33.0	29 50.5	115 52.0	CR	54 08 29	0913	69	261	2.65	100.0	55	31
110.0	35.0	29 46.0	115 59.5	CR	54 08 29	1036	145	462	3.13	100.0	55	5
110.0	40.0	29 36.5	116 17.5	CR	54 08 29	1306	146	459	3.17	100.0	34	116
110.0	45.0	29 26.0	116 39.0	CR	54 08 29	1631	148	458	3.23	100.0	10	43
110.0	50.0	29 16.5	116 58.5	CR	54 08 29	1906	144	464	3.10	100.0	85	182
110.0	60.0	28 57.0	117 38.5	CR	54 08 29	2336	143	487	2.95	100.0	73	344
113.0	30.0	29 22.0	115 17.0	CR	54 08 28	0353	56	236	2.39	50.0	21	366
113.0	35.0	29 10.5	115 37.5	CR	54 08 28	2331	132	548	2.40	100.0	148	7
113.0	40.0	29 02.0	115 58.5	CR	54 08 28	2021	144	492	2.92	100.0	71	21
117.0	26.0	28 56.0	114 41.0	CR	54 08 27	0643	63	270	2.32	100.0	61	303

TABLE 1. (cont.)

CalCOFI Cruise 5408

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
117.0	30.0	28 48.0	114 56.5	CR	54 08 27	0838	84	286	2.93	100.0	48	47
117.0	35.0	28 38.0	115 16.0	CR	54 08 27	1401	134	515	2.61	100.0	65	34
117.0	40.0	28 27.0	115 35.0	CR	54 08 27	1636	142	490	2.89	100.0	110	11
120.0	25.0	28 23.5	114 15.5	CR	54 08 27	0038	47	206	2.29	100.0	37	317
120.0	30.0	28 11.0	114 38.0	CR	54 08 26	2113	75	304	2.47	100.0	73	1533
120.0	35.0	28 02.5	114 54.0	CR	54 08 25	2103	68	260	2.61	100.0	118	537
120.0	45.0	27 41.0	115 37.0	CR	54 08 25	1526	151	413	3.66	100.0	121	209
120.0	50.0	27 33.0	115 52.0	CR	54 08 25	1206	138	486	2.84	100.0	98	72
120.0	60.0	27 13.0	116 30.0	CR	54 08 25	0721	145	454	3.19	100.0	131	35
120.0	70.0	26 52.5	117 10.0	CR	54 08 25	0146	146	490	2.98	100.0	268	116
120.0	80.0	26 33.0	117 48.0	CR	54 08 24	2106	140	490	2.85	100.0	391	38
120.0	90.0	26 12.5	118 27.0	CR	54 08 24	1526	141	490	2.88	100.0	302	100
123.0	37.0	27 24.0	114 39.5	CR	54 08 23	1508	69	254	2.73	100.0	17	104
123.0	40.0	27 18.0	114 52.0	CR	54 08 23	1656	144	433	3.33	100.0	22	97
123.0	45.0	27 07.5	115 12.0	CR	54 08 23	2016	138	454	3.03	100.0	331	98
123.0	50.0	26 58.0	115 31.0	CR	54 08 23	2256	145	434	3.34	100.0	252	58
127.0	34.0	26 56.0	114 07.5	CR	54 08 23	1023	69	24	2.88	100.0	22	24
127.0	40.0	26 43.0	114 30.0	CR	54 08 23	0701	134	474	2.83	100.0	57	153
127.0	45.0	26 28.0	114 49.0	CR	54 08 23	0350	141	477	2.95	100.0	207	16
127.0	50.0	26 21.0	115 10.5	CR	54 08 23	0026	137	495	2.78	100.0	256	57
130.0	30.0	26 26.0	113 32.0	CR	54 08 22	0213	72	243	2.99	100.0	81	61
130.0	35.0	26 17.0	113 49.5	CR	54 08 22	0436	135	502	2.70	100.0	104	518
130.0	40.0	26 09.0	114 07.5	CR	54 08 22	0711	147	316	4.66	100.0	10	4
130.0	45.0	25 59.5	114 29.0	CR	54 08 22	1041	141	413	3.42	100.0	46	8
130.0	50.0	25 50.5	114 46.5	CR	54 08 22	1301	143	396	3.61	100.0	136	21
130.0	60.0	25 31.5	115 24.0	CR	54 08 22	1718	146	466	3.13	100.0	54	12
133.0	25.0	26 04.5	112 48.0	CR	54 08 21	2028	69	263	2.61	100.0	183	296
133.0	30.0	25 54.5	113 07.0	CR	54 08 21	1716	145	454	3.20	100.0	38	109
133.0	35.0	25 44.5	113 26.0	CR	54 08 21	1426	142	430	3.30	100.0	20	42
133.0	40.0	25 34.0	113 45.5	CR	54 08 21	1151	148	343	4.32	100.0	26	4
137.0	23.0	25 34.2	112 18.5	CR	54 08 21	0228	41	297	1.39	50.0	153	1117
137.0	30.0	25 20.0	112 45.5	CR	54 08 21	0556	138	503	2.74	100.0	196	39

TABLE 1. (cont.)

CalCOFI Cruise 5410

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
77.0	50.0	35 04.0	120 52.0	CR	54 10 06	1821	122	429	2.84	50.0	7	2
77.0	55.0	34 54.0	121 13.0	CR	54 10 06	1436	112	573	1.95	50.0	10	2
80.0	51.0	34 26.0	120 33.0	CR	54 10 07	1347	96	383	2.50	100.0	21	40
80.0	55.0	34 19.0	120 48.0	CR	54 10 07	1626	145	467	3.11	50.0	0	3
80.0	60.0	34 09.0	121 09.0	CR	54 10 07	2001	145	441	3.30	100.0	22	2
80.0	70.0	33 47.0	121 48.0	CR	54 10 08	0051	140	405	3.71	100.0	6	7
80.0	80.0	33 26.0	122 32.0	CR	54 10 08	0826	136	432	3.14	100.0	15	6
80.0	90.0	33 09.0	123 13.0	CR	54 10 08	1311	147	473	3.10	100.0	5	8
82.0	47.0	34 15.0	119 58.0	CR	54 10 09	1656	139	450	3.09	100.0	21	61
83.0	40.0	34 13.5	119 22.0	CR	54 10 09	2344	20	86	2.30	100.0	17	7
83.0	43.0	34 05.5	119 35.5	CR	54 10 09	2143	65	254	2.56	100.0	48	37
83.0	48.0	33 57.5	119 55.0	CR	54 10 09	1418	75	282	2.67	100.0	23	256
83.0	51.0	33 51.0	120 08.0	CR	54 10 09	1136	143	416	3.43	100.0	9	5
83.0	55.0	33 43.5	120 24.0	CR	54 10 09	0911	151	446	3.40	100.0	2	9
83.0	60.0	33 35.0	120 47.0	CR	54 10 09	0456	140	476	2.94	100.0	8	3
85.0	39.0	33 59.0	119 05.5	CR	54 10 10	0146	136	469	2.91	100.0	47	12
85.0	40.0	33 57.0	119 10.0	CR	54 10 10	0316	141	469	3.01	100.0	32	8
85.0	45.0	33 47.0	119 31.0	CR	54 10 10	0606	130	441	2.95	100.0	8	9
85.0	50.0	33 37.0	119 52.0	CR	54 10 10	0936	131	358	3.66	100.0	7	6
85.0	55.0	33 27.0	120 12.0	CR	54 10 10	1221	147	383	3.84	100.0	11	6
85.0	60.0	33 15.5	120 36.5	CR	54 10 10	1551	140	454	3.08	100.0	6	7
87.0	35.0	33 51.5	118 36.5	CR	54 10 11	0906	131	531	2.46	100.0	33	57
87.0	45.0	33 30.0	119 19.0	CR	54 10 11	0316	138	482	2.87	50.0	4	8
87.0	50.0	33 20.0	119 40.0	CR	54 10 11	0046	70	246	2.86	100.0	16	0
87.0	55.0	33 10.0	120 00.5	CR	54 10 10	2146	129	479	2.70	50.0	7	0
87.0	60.0	33 00.0	120 21.0	CR	54 10 10	1816	139	464	2.99	100.0	17	9
90.0	28.0	33 28.5	117 45.5	CR	54 10 12	1138	79	302	2.63	100.0	9	8
90.0	30.0	33 24.0	117 54.5	CR	54 10 12	1306	139	444	3.13	100.0	19	13
90.0	37.0	33 10.5	118 23.0	CR	54 10 12	1631	133	465	2.86	100.0	21	2
90.0	45.0	32 54.5	118 56.0	CR	54 10 12	2056	131	454	2.90	100.0	3	3
90.0	50.0	32 44.0	119 16.0	CR	54 10 12	2348	66	239	2.75	100.0	17	1
90.0	55.0	32 34.0	119 36.5	CR	54 10 13	0226	128	467	2.75	100.0	17	1
90.0	60.0	32 05.0	120 38.0	CR	54 10 13	0941	142	459	3.10	100.0	3	3
93.0	27.0	32 56.0	117 31.0	CR	54 10 14	1028	67	230	2.91	100.0	6	9
93.0	30.0	32 50.0	117 19.0	CR	54 10 14	0816	136	460	2.96	100.0	23	3
93.0	40.0	32 30.5	118 12.5	CR	54 10 14	0346	136	456	2.97	100.0	34	12
93.0	45.0	32 20.0	118 33.0	CR	54 10 14	0106	128	483	2.64	100.0	39	7
93.0	50.0	32 10.0	118 53.0	CR	54 10 13	2136	140	428	3.28	100.0	3	2
93.0	55.0	32 00.5	119 13.5	CR	54 10 13	1856	148	459	3.22	100.0	16	3
97.0	30.0	32 15.5	117 09.0	CR	54 10 14	1516	48	151	3.18	100.0	43	23
97.0	32.0	32 11.5	117 17.0	CR	54 10 14	1611	142	382	3.71	100.0	45	68
97.0	40.0	31 55.5	117 50.0	CR	54 10 14	1956	139	406	3.42	100.0	5	4
97.0	45.0	31 45.0	118 10.0	CR	54 10 14	2256	128	446	2.86	100.0	16	34
97.0	50.0	31 35.0	118 30.0	CR	54 10 15	0126	140	337	4.15	100.0	9	3

TABLE 1. (cont.)

CalCOFI Cruise 5410

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
97.0	55.0	31 25.0	118 51.0	CR	54 10 15	0356	142	379	3.75	100.0	5	4
100.0	29.0	31 42.0	116 43.5	CR	54 10 17	0048	81	306	2.66	100.0	28	36
100.0	30.0	31 40.5	116 46.5	CR	54 10 16	2356	136	434	3.14	100.0	82	14
100.0	40.0	31 21.0	117 27.0	CR	54 10 16	1901	142	466	3.04	100.0	43	1
100.0	45.0	31 10.5	117 47.0	CR	54 10 16	1636	141	438	3.23	100.0	16	0
100.0	50.0	31 02.0	118 05.0	CR	54 10 16	1341	149	450	3.32	100.0	0	5
100.0	55.0	30 52.5	118 26.5	CR	54 10 16	1126	144	423	3.40	100.0	4	8
100.0	60.0	30 42.0	118 48.0	CR	54 10 16	0826	145	485	2.99	100.0	2	5
100.0	70.0	30 22.0	119 28.0	CR	54 10 16	0346	140	484	2.89	100.0	21	5
100.0	80.0	30 01.5	120 08.0	CR	54 10 15	2316	147	484	3.04	100.0	67	14
100.0	90.0	29 41.0	120 48.0	CR	54 10 15	1801	141	479	2.95	100.0	50	51
103.0	30.0	31 05.5	116 24.2	HO	54 10 24	0704	33	237	1.39	50.0	26	9
103.0	35.0	30 55.3	116 44.8	HO	54 10 24	0911	118	510	2.31	100.0	59	32
103.0	40.0	30 45.5	117 05.2	HO	54 10 24	1229	132	457	2.88	100.0	7	14
107.0	32.0	30 25.8	116 11.0	HO	54 10 24	0156	145	450	3.21	100.0	14	15
107.0	35.0	30 22.0	116 23.3	HO	54 10 24	0031	138	466	2.97	50.0	35	2
107.0	40.0	30 11.6	116 45.0	HO	54 10 23	2126	129	456	2.83	100.0	59	17
110.0	33.0	29 51.6	115 52.5	HO	54 10 22	2243	63	346	1.82	100.0	32	109
110.0	35.0	29 47.0	116 01.0	HO	54 10 22	2331	122	470	2.60	100.0	9	13
110.0	40.0	29 37.0	116 19.7	HO	54 10 23	0305	145	412	3.52	100.0	20	36
110.0	45.0	29 25.8	116 41.0	HO	54 10 23	0541	140	511	2.74	100.0	4	83
110.0	50.0	29 16.5	116 59.0	HO	54 10 23	0736	136	478	2.85	100.0	10	8
110.0	55.0	29 00.0	117 25.0	HO	54 10 23	1006	129	479	2.70	100.0	10	122
110.0	60.0	29 00.0	117 38.0	HO	54 10 23	1233	138	413	3.33	100.0	20	21
113.0	30.0	29 25.0	115 19.2	HO	54 10 22	1759	43	166	2.60	100.0	8	22
113.0	35.0	29 13.0	115 38.8	HO	54 10 22	1521	126	480	2.63	100.0	8	5
113.0	40.0	29 03.4	115 58.0	HO	54 10 22	1216	140	420	3.33	100.0	21	16
117.0	26.0	28 52.5	114 38.8	HO	54 10 22	0038	65	249	2.62	100.0	16	59
117.0	30.0	28 48.0	114 56.5	HO	54 10 22	0304	62	340	1.84	100.0	43	856
117.0	35.0	28 36.6	115 17.0	HO	54 10 22	0506	88	594	1.48	50.0	29	30
117.0	40.0	28 29.0	115 35.7	HO	54 10 22	0800	112	510	2.19	50.0	27	20
120.0	25.0	28 21.5	114 21.0	HO	54 10 21	2034	28	233	1.21	100.0	7	58
120.0	30.0	28 13.0	114 34.0	HO	54 10 21	1758	66	257	2.57	100.0	45	815
120.0	35.0	28 03.0	114 54.0	HO	54 10 21	1548	37	359	1.03	100.0	43	1507
120.0	45.0	27 43.0	115 33.0	HO	54 10 20	2326	134	464	2.88	50.0	34	18
120.0	50.0	27 33.2	115 52.8	HO	54 10 20	2116	103	526	1.97	50.0	35	8
120.0	60.0	27 13.5	116 30.2	HO	54 10 20	1536	147	399	3.67	100.0	20	8
120.0	70.0	26 46.4	117 06.7	HO	54 10 20	1101	124	465	2.67	100.0	53	53
120.0	80.0	26 38.4	117 46.5	HO	54 10 20	0601	146	439	3.32	100.0	50	39
120.0	90.0	26 15.0	118 27.0	HO	54 10 20	0124	143	489	2.93	100.0	131	74
123.0	37.0	27 24.0	114 39.5	HO	54 10 19	0028	56	238	2.35	100.0	102	48
123.0	40.0	27 18.0	114 52.0	HO	54 10 19	0226	145	445	3.25	50.0	36	47
123.0	45.0	27 07.5	115 11.5	HO	54 10 19	0441	135	471	2.86	100.0	99	6
123.0	50.0	26 56.5	115 30.0	HO	54 10 19	0656	141	435	3.24	100.0	80	12
123.0	55.0	26 47.0	115 47.5	HO	54 10 19	1008	141	466	3.03	100.0	24	16

TABLE 1. (cont.)

CalCOFI Cruise 5410

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
127.0	40.0	26 47.5	114 29.5	HO	54 10 18	1741	146	433	3.38	100.0	53	1
127.0	45.0	26 34.0	114 54.0	HO	54 10 18	1426	136	462	2.93	100.0	15	5
127.0	50.0	26 22.5	115 09.0	HO	54 10 18	1216	96	605	1.58	50.0	33	0
127.0	55.0	26 12.5	115 27.0	HO	54 10 18	0911	141	449	3.14	25.0	4	2
130.0	30.0	26 29.0	113 27.5	HO	54 10 17	1223	36	267	1.33	100.0	61	285
130.0	35.0	26 19.5	113 45.0	HO	54 10 17	1427	74	464	1.60	100.0	7	89
130.0	40.0	26 10.8	114 03.7	HO	54 10 17	1741	128	491	2.60	50.0	28	23
130.0	45.0	25 59.0	114 27.0	HO	54 10 17	2016	140	463	3.01	50.0	42	2
130.0	50.0	25 49.2	114 46.5	HO	54 10 17	2236	143	464	3.08	100.0	126	11
130.0	55.0	25 40.5	115 07.0	HO	54 10 18	0056	149	444	3.37	50.0	50	4
130.0	60.0	25 30.5	115 27.5	HO	54 10 18	0504	104	550	1.89	50.0	73	10
133.0	25.0	26 05.0	112 47.5	HO	54 10 17	0758	54	297	1.80	100.0	14	338
133.0	30.0	25 49.5	113 07.0	HO	54 10 17	0546	108	582	1.86	100.0	21	16
137.0	23.0	25 35.0	112 19.0	HO	54 10 16	2208	38	389	0.98	50.0	254	992
137.0	30.0	25 20.5	112 45.0	HO	54 10 17	0056	140	480	2.93	100.0	188	41

TABLE 1. (cont.)

CalCOFI Cruise 5412

Line	Station	Lat. (N) deg. min.	Long. (W) deg. min.	Ship Code	Tow yr. mo. day	Date mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
80.0	51.0	34 27.5	120 33.0	CR	54 12 02	12 02	1203	68	255	2.68	100.0	89	64
80.0	55.0	34 21.5	120 50.0	CR	54 12 02	12 02	1506	144	419	3.44	100.0	64	171
80.0	60.0	34 09.0	121 09.0	CR	54 12 02	12 02	1751	142	452	3.15	100.0	9	24
80.0	70.0	33 50.5	121 51.0	CR	54 12 02	12 02	0011	129	496	2.59	100.0	13	11
80.0	80.0	33 33.0	122 31.0	CR	54 12 03	12 03	0441	139	498	2.80	100.0	6	16
80.0	90.0	33 14.0	123 12.0	CR	54 12 03	12 03	1026	144	457	3.15	100.0	3	4
82.0	47.0	34 16.0	119 58.0	CR	54 12 04	12 04	1056	145	449	3.23	100.0	276	560
83.0	40.0	34 14.0	119 21.5	CR	54 12 04	12 04	1619	13	88	1.53	100.0	405	302
83.0	43.0	34 08.5	119 33.5	CR	54 12 04	12 04	1437	109	403	2.71	100.0	55	187
83.0	48.0	33 58.0	119 54.5	CR	54 12 04	12 04	0741	147	412	3.56	100.0	68	351
83.0	51.0	33 51.5	120 08.0	CR	54 12 04	12 04	0531	144	453	3.17	100.0	61	460
83.0	55.0	33 43.5	120 24.0	CR	54 12 04	12 04	0231	138	464	2.97	100.0	11	19
83.0	60.0	33 34.0	120 44.5	CR	54 12 03	12 03	0001	137	472	2.89	100.0	9	0
85.0	39.0	33 59.0	119 04.0	CR	54 12 04	12 04	2021	136	480	2.83	100.0	706	188
85.0	40.0	33 57.5	119 10.5	CR	54 12 04	12 04	2121	137	470	2.91	100.0	320	179
85.0	45.0	33 47.0	119 31.5	CR	54 12 04	12 04	0046	138	451	3.06	100.0	31	1724
85.0	50.0	33 37.0	119 52.0	CR	54 12 05	12 05	0331	139	439	3.15	100.0	67	44
85.0	55.0	33 26.5	120 13.5	CR	54 12 05	12 05	0716	135	456	2.96	100.0	3	66
85.0	60.0	33 17.0	120 33.5	CR	54 12 05	12 05	0941	132	466	2.84	100.0	3	15
87.0	35.0	33 51.0	118 38.5	CR	54 12 06	12 06	0406	135	477	2.83	100.0	82	169
87.0	40.0	33 40.0	118 58.5	CR	54 12 06	12 06	0106	141	450	3.14	100.0	71	1002
87.0	45.0	33 30.0	119 18.5	CR	54 12 05	12 05	2116	142	458	3.09	50.0	42	384
87.0	50.0	33 20.0	119 39.5	CR	54 12 05	12 05	1848	61	236	2.58	100.0	82	18
87.0	55.0	33 10.0	120 00.5	CR	54 12 05	12 05	1521	143	451	3.17	100.0	9	58
87.0	60.0	33 00.0	120 21.5	CR	54 12 05	12 05	1251	142	416	3.43	100.0	1	9
90.0	28.0	33 28.5	117 46.7	CR	54 12 06	12 06	1146	127	494	2.58	100.0	41	168
90.0	30.0	33 24.5	117 55.0	CR	54 12 06	12 06	1146	136	463	2.94	100.0	47	476
90.0	37.0	33 11.0	118 23.5	CR	54 12 07	12 07	0416	145	442	3.28	100.0	25	220
90.0	45.0	32 55.0	118 56.0	CR	54 12 07	12 07	0811	147	418	3.51	100.0	21	557
90.0	50.0	32 45.5	119 16.5	CR	54 12 07	12 07	1201	140	419	3.35	100.0	11	625
90.0	60.0	32 25.0	119 56.0	CR	54 12 07	12 07	1735	134	466	2.87	100.0	55	242
90.0	70.0	32 05.0	120 38.0	CR	54 12 07	12 07	0036	146	460	3.17	100.0	7	4
93.0	27.0	32 56.0	117 19.0	CR	54 12 09	12 09	0046	139	453	3.06	100.0	8	13
93.0	30.0	32 49.5	117 31.0	CR	54 12 08	12 08	2146	139	482	2.88	100.0	8	112
93.0	40.0	32 30.0	118 12.5	CR	54 12 08	12 08	1556	141	442	3.19	100.0	9	84
93.0	50.0	32 08.0	118 55.0	CR	54 12 08	12 08	1111	142	437	3.26	100.0	16	87
97.0	30.0	32 15.0	117 08.5	CR	54 12 09	12 09	0542	49	211	2.34	100.0	12	58
97.0	32.0	32 11.5	117 16.0	CR	54 12 09	12 09	0701	136	429	3.17	100.0	6	78
97.0	40.0	31 55.5	117 50.0	CR	54 12 09	12 09	1126	134	430	3.12	100.0	9	32
97.0	50.0	31 34.5	118 29.0	CR	54 12 09	12 09	1606	146	413	3.53	100.0	6	54
100.0	29.0	31 42.0	116 43.5	CR	54 12 11	12 11	2017	89	301	2.96	100.0	42	102
100.0	30.0	31 40.5	116 46.5	CR	54 12 11	12 11	1901	135	455	2.97	100.0	26	62
100.0	40.0	31 23.5	117 26.0	CR	54 12 11	12 11	1416	143	419	3.41	100.0	3	28
100.0	60.0	30 42.5	118 44.5	CR	54 12 11	12 11	0316	145	432	3.35	100.0	2	4
100.0	70.0	30 20.5	119 27.0	CR	54 12 10	12 10	2201	145	391	3.70	100.0	14	12

TABLE 1. (cont.)

CalCOFI Cruise 5412

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
100.0	90.0	29 41.0	120 47.0	CR	54 12 10	1131	148	400	3.71	100.0	3	146
103.0	30.0	31 06.0	116 25.0	CR	54 12 12	0928	54	189	2.87	100.0	19	18
103.0	35.0	30 55.0	116 45.0	CR	54 12 12	0626	136	440	3.09	100.0	17	45
103.0	40.0	30 45.0	117 05.5	CR	54 12 12	0351	137	445	3.08	100.0	6	6
107.0	32.0	30 26.0	116 11.0	CR	54 12 12	1406	135	454	2.98	100.0	15	96
107.0	35.0	30 22.0	116 19.0	CR	54 12 12	1626	142	420	3.39	100.0	59	10
107.0	40.0	30 10.0	116 43.0	CR	54 12 12	1926	142	419	3.39	100.0	12	0
110.0	33.0	29 50.0	115 52.4	CR	54 12 13	2058	74	259	2.87	100.0	48	116
110.0	35.0	29 46.0	116 00.0	CR	54 12 13	1926	136	487	2.78	100.0	22	134
110.0	40.0	29 36.0	116 19.5	CR	54 12 13	1636	141	444	3.18	100.0	4	1
110.0	50.0	29 17.5	117 00.0	CR	54 12 13	1051	138	441	3.12	100.0	3	1
110.0	60.0	28 56.5	117 39.0	CR	54 12 13	0611	144	429	3.35	100.0	0	3
113.0	30.0	29 23.0	115 19.0	PT	54 12 16	1458	50	211	2.36	100.0	73	59
113.0	35.0	29 07.0	115 33.0	PT	54 12 16	1106	122	517	2.36	50.0	7	30
113.0	40.0	28 56.0	115 55.0	PT	54 12 16	0741	120	520	2.30	100.0	2	40
113.0	50.0	28 39.0	116 36.0	PT	54 12 16	0121	142	412	3.44	100.0	96	6
113.0	60.0	28 24.0	117 15.0	PT	54 12 15	1906	136	462	2.95	100.0	6	3
117.0	26.0	28 56.0	114 40.0	PT	54 12 14	1613	62	257	2.41	100.0	6	23
117.0	30.0	28 48.0	114 56.0	PT	54 12 14	1852	88	318	2.76	50.0	52	74
117.0	35.0	28 39.0	115 16.0	PT	54 12 14	2226	122	516	2.37	100.0	77	847
117.0	40.0	28 29.0	115 37.0	PT	54 12 15	0141	142	440	3.21	100.0	81	36
117.0	50.0	28 09.0	116 16.0	PT	54 12 15	0826	120	520	2.30	50.0	1	1
117.0	60.0	27 54.0	116 51.0	PT	54 12 15	1336	138	452	3.06	100.0	10	3
120.0	25.0	28 22.0	114 17.0	PT	54 12 14	1045	56	301	1.86	100.0	7	312
120.0	30.0	28 15.0	114 28.0	PT	54 12 14	0843	61	314	1.95	100.0	1	164
120.0	35.0	28 03.0	114 50.0	PT	54 12 14	0453	74	244	3.04	50.0	14	128
120.0	40.0	27 56.0	115 17.0	PT	54 12 14	0058	58	191	3.02	100.0	37	36
120.0	45.0	27 42.0	115 32.0	PT	54 12 13	2131	121	500	2.42	100.0	6	7
120.0	50.0	27 32.0	115 57.0	PT	54 12 13	1811	134	458	2.93	100.0	3	4
120.0	60.0	27 08.0	116 25.0	PT	54 12 13	0941	126	544	2.32	100.0	6	37
120.0	70.0	26 49.0	117 08.0	PT	54 12 13	0026	135	458	2.95	100.0	33	8
120.0	80.0	26 29.0	117 53.0	PT	54 12 12	1721	131	437	3.00	100.0	52	62
120.0	90.0	26 17.0	118 24.0	PT	54 12 12	1021	133	480	2.78	100.0	4	15
123.0	37.0	27 24.0	114 40.0	PT	54 12 11	0148	61	221	2.75	100.0	36	106
123.0	40.0	27 18.0	114 53.0	PT	54 12 11	0416	121	506	2.38	100.0	14	8
123.0	45.0	27 11.0	115 12.0	PT	54 12 11	0826	133	444	2.99	100.0	3	1
123.0	50.0	27 03.0	115 32.0	PT	54 12 11	1146	138	394	3.51	100.0	9	0
123.0	55.0	26 53.0	115 50.0	PT	54 12 11	1501	145	407	3.56	100.0	5	6
127.0	34.0	26 56.0	114 09.0	PT	54 12 10	1923	71	306	2.33	100.0	73	67
127.0	40.0	26 45.0	114 38.0	PT	54 12 10	1536	141	477	2.95	100.0	7	0
127.0	45.0	26 30.0	114 40.0	PT	54 12 10	1206	134	488	2.75	100.0	5	3
127.0	50.0	26 23.0	115 03.0	PT	54 12 10	0846	130	471	2.77	100.0	6	2
127.0	55.0	26 12.0	115 22.0	PT	54 12 10	0516	132	486	2.71	100.0	42	3
130.0	30.0	26 31.0	113 26.0	PT	54 12 09	0015	67	272	2.47	50.0	197	284
130.0	35.0	26 21.0	113 48.0	PT	54 12 09	0411	138	477	2.90	100.0	285	14

TABLE 1. (cont.)

CalCOFI Cruise 5412

Line	Station	Lat.(N) deg. min.	Long.(W) deg. min.	Ship Code	Tow Date yr. mo. day	Time (PST)	Tow Depth (m)	Vol. Water Strained (cu. m)	Stand- ard Haul Factor	Percent Sorted	Total Larvae	Total Eggs
130.0	40.0	26 11.0	114 08.0	PT	54 12 09	0726	138	455	3.04	100.0	19	3
130.0	50.0	25 48.0	114 44.0	PT	54 12 09	1531	136	446	3.04	100.0	15	1
130.0	60.0	25 29.0	115 23.0	PT	54 12 09	2121	125	511	2.45	100.0	16	4
133.0	25.0	26 03.0	112 48.0	PT	54 12 08	1443	70	300	2.34	100.0	5	99
133.0	30.0	25 54.0	113 07.0	PT	54 12 08	1806	135	490	2.76	100.0	8	1
137.0	23.0	25 37.0	112 20.0	PT	54 12 08	0853	57	313	1.83	100.0	618	359
137.0	30.0	25 24.0	112 41.0	PT	54 12 08	0511	139	437	3.19	100.0	36	4
140.0	30.0	24 47.0	112 25.0	PT	54 12 07	2328	78	363	2.13	100.0	46	110
140.0	35.0	24 37.0	112 43.0	PT	54 12 07	1931	131	483	2.70	100.0	21	56
140.0	40.0	24 26.0	113 02.0	PT	54 12 07	1616	135	472	2.85	100.0	4	121
143.0	26.0	24 18.0	111 48.0	PT	54 12 07	0348	67	352	1.91	100.0	18	139
143.0	30.0	24 14.0	112 04.0	PT	54 12 07	0611	136	475	2.87	100.0	1	21
143.0	35.0	24 00.0	112 25.0	PT	54 12 07	0956	126	477	2.64	100.0	4	98
147.0	20.0	23 58.0	111 01.0	PT	54 12 06	2113	74	357	2.07	100.0	140	796
147.0	25.0	23 48.0	111 22.0	PT	54 12 06	1806	131	445	2.94	100.0	37	265
147.0	30.0	23 35.0	111 47.0	PT	54 12 06	1346	130	490	2.65	100.0	6	69
150.0	19.0	22 24.0	110 39.0	PT	54 12 05	2316	126	540	2.33	100.0	12	13
150.0	25.0	23 14.0	111 02.0	PT	54 12 06	0316	129	548	2.36	100.0	20	5
150.0	30.0	23 02.0	111 18.0	PT	54 12 06	0746	129	502	2.57	100.0	2	50
153.0	16.0	22 54.0	110 06.0	PT	54 12 05	1626	143	494	2.90	100.0	6	185
153.0	20.0	22 49.0	110 17.0	PT	54 12 05	1441	135	482	2.80	100.0	3	21
153.0	30.0	22 25.0	111 02.0	PT	54 12 05	0701	140	497	2.82	50.0	6	300
157.0	10.0	22 35.0	109 19.0	PT	54 12 04	1151	119	568	2.09	100.0	22	82
157.0	20.0	22 15.0	110 04.0	PT	54 12 04	1831	136	481	2.83	100.0	57	52
157.0	30.0	21 52.0	110 38.0	PT	54 12 05	0051	136	500	2.72	100.0	42	39

TABLE 2. Pooled occurrences of fish larvae taken during CalCOFI cruises in 1954.

Rank	Taxon	Occurrences
1	<i>Sebastes</i> spp.	841
2	<i>Engraulis mordax</i>	760
3	<i>Triphoturus mexicanus</i>	565
4	<i>Merluccius productus</i>	543
5	<i>Leuroglossus stilbuis</i>	517
6	<i>Stenobranchius leucopsarus</i>	452
7	<i>Vinciguerrria lucetia</i>	425
8	<i>Sardinops sagax</i>	375
9	<i>Trachurus symmetricus</i>	373
10	<i>Bathylagus wesethi</i>	365
11	<i>Citharichthys stigmaeus</i>	347
12	<i>Diogenichthys laternatus</i>	346
13	<i>Lampanyctus ritteri</i>	308
14	<i>Protomyctophum crockeri</i>	293
15	<i>Bathylagus ochotensis</i>	195
16	<i>Citharichthys xanthostigma</i>	189
16	<i>Melamphaes</i> spp.	189
18	<i>Cyclothone</i> spp.	184
19	<i>Tarletonbeania crenularis</i>	164
20	Unidentified fish larva	161
21	<i>Lampanyctus</i> spp.	154
22	<i>Citharichthys fragilis</i>	152
23	<i>Citharichthys</i> spp.	147
24	<i>Symbolophorus californiensis</i>	146
25	<i>Icichthys lockingtoni</i>	125
26	Labridae	124
26	<i>Stomias atriventer</i>	124
28	Paralepididae	123
29	<i>Scomber japonicus</i>	119
30	<i>Lyopsetta exilis</i>	116
31	Gobiidae	113
32	<i>Diaphus</i> spp.	111
33	<i>Argentina sialis</i>	110
34	<i>Citharichthys sordidus</i>	109
35	Sciaenidae	90
36	<i>Diogenichthys atlanticus</i>	87
37	<i>Synodus</i> spp.	82
38	Disintegrated fish larva	63
39	<i>Hippoglossina stomata</i>	57
40	<i>Chauliodus macouni</i>	54
41	Myctophidae	53
42	<i>Parophrys vetulus</i>	51
43	Cottidae	49
43	Sternoptychidae	49
45	<i>Nansenia crassa</i>	47
46	Pleuronectiformes	46
47	<i>Gonichthys tenuiculus</i>	45
48	<i>Paralichthys californicus</i>	42

TABLE 2. (cont.)

Rank	Taxon	Occurrences
49	<i>Ceratoscopelus townsendi</i>	41
50	<i>Microstoma microstoma</i>	39
51	<i>Peprilus simillimus</i>	38
52	Ophidiiformes	37
53	Trichiuridae	36
53	<i>Hygophum atratum</i>	36
55	<i>Symphurus</i> spp.	35
56	<i>Pleuronichthys verticalis</i>	31
56	Chiasmodontidae	31
58	Anguilliformes	30
59	<i>Loweina rara</i>	29
59	Serranidae	29
61	<i>Poromitra</i> spp.	28
61	Scopelarchidae	28
61	<i>Etrumeus acuminatus</i>	28
64	<i>Nansenia candida</i>	27
64	<i>Hypsoblennius</i> spp.	27
66	<i>Ichthyococcus</i> spp.	26
67	Agonidae	23
68	<i>Cololabis saira</i>	22
69	<i>Chromis punctipinnis</i>	21
70	<i>Brosmophycis marginata</i>	19
70	Clinidae	19
70	<i>Idiacanthus antrostomus</i>	19
70	<i>Lampanyctus regalis</i>	19
74	<i>Pleuronichthys</i> spp.	18
75	<i>Scorpaenichthys marmoratus</i>	17
75	<i>Medialuna californiensis</i>	17
75	<i>Ophidion scrippsae</i>	17
75	Trachipteridae	17
75	<i>Microstomus pacificus</i>	17
80	<i>Scopelogadus bispinosus</i>	15
80	Macrouridae	15
82	Pomacentridae	14
83	<i>Prionotus</i> spp.	13
84	<i>Caulolatilus princeps</i>	12
85	<i>Myctophum nitidulum</i>	11
85	<i>Pleuronichthys coenosus</i>	11
85	<i>Tactostoma macropus</i>	11
85	<i>Bathylagus pacificus</i>	11
89	<i>Tetragonurus cuvieri</i>	10
89	<i>Hygophum</i> spp.	10
89	<i>Lampadena urophaos</i>	10
92	<i>Glyptocephalus zachirus</i>	9
92	Carangidae	9
94	Cyclopteridae	8
94	<i>Notoscopelus resplendens</i>	8
94	<i>Chilara taylori</i>	8
97	Atherinidae	7

TABLE 2. (cont.)

Rank	Taxon	Occurrences
98	Stomiiformes	6
98	<i>Sphyraena argentea</i>	6
100	<i>Xystreurys liolepis</i>	5
100	<i>Psettichthys melanostictus</i>	5
100	<i>Seriola lalandi</i>	5
100	<i>Hygophum reinhardtii</i>	5
100	<i>Zaniolepis</i> spp.	5
105	<i>Syngnathus</i> spp.	4
105	<i>Etropus</i> spp.	4
105	<i>Diplophos taenia</i>	4
108	<i>Bothus</i> spp.	3
108	<i>Oxylebius pictus</i>	3
108	Carapidae	3
108	<i>Syacium ovale</i>	3
112	<i>Brama</i> spp.	2
112	<i>Aristostomias scintillans</i>	2
112	Ceratioidei	2
112	<i>Notolychnus valdiviae</i>	2
112	<i>Pleuronichthys decurrens</i>	2
117	<i>Mugil</i> spp.	1
117	Exocoetidae	1
117	<i>Sebastolobus</i> spp.	1
117	<i>Opisthonema</i> spp.	1
117	Scombridae	1
117	<i>Auxis</i> spp.	1
117	<i>Bathylagus</i> spp.	1
117	<i>Bathophilus</i> spp.	1
117	<i>Girella nigricans</i>	1
117	<i>Bathylagus milleri</i>	1
117	<i>Seriola</i> spp.	1
117	<i>Myctophum aurolaternatum</i>	1
117	<i>Bregmaceros</i> spp.	1

TABLE 3. Pooled numbers of fish larvae taken during CalCOFI cruises in 1954. Counts are adjusted for percent of sample sorted and standard haul factor (see text).

Rank	Taxon	Count
1	<i>Engraulis mordax</i>	161598
2	<i>Merluccius productus</i>	53277
3	<i>Sebastes</i> spp.	51096
4	<i>Sardinops sagax</i>	27017
5	<i>Triphoturus mexicanus</i>	20214
6	<i>Stenobranchius leucopsarus</i>	20186
7	<i>Vinciguerrria lucetia</i>	19058
8	<i>Trachurus symmetricus</i>	15009
9	<i>Leuroglossus stilbius</i>	11520
10	<i>Bathylagus wesethi</i>	8320
11	<i>Diogenichthys laternatus</i>	6090
12	<i>Diaphus</i> spp.	5146
13	<i>Citharichthys fragilis</i>	4020
14	<i>Synodus</i> spp.	3819
15	<i>Citharichthys xanthostigma</i>	3489
16	<i>Citharichthys stigmaeus</i>	3436
17	<i>Lampanyctus ritteri</i>	2866
18	<i>Scomber japonicus</i>	2456
19	<i>Citharichthys</i> spp.	1987
20	<i>Tarletonbeania crenularis</i>	1883
21	<i>Protomyctophum crockeri</i>	1720
22	Sciaenidae	1608
23	<i>Bathylagus ochotensis</i>	1553
24	<i>Cyclothone</i> spp.	1544
25	Labridae	1427
26	<i>Lyopsetta exilis</i>	1158
27	<i>Symbolophorus californiensis</i>	1106
28	<i>Argentina sialis</i>	1073
29	<i>Lampanyctus</i> spp.	1042
30	<i>Icichthys lockingtoni</i>	1017
31	Unidentified fish larva	997
32	<i>Melamphaes</i> spp.	785
33	<i>Citharichthys sordidus</i>	766
34	<i>Stomias atriventer</i>	607
35	Paralepididae	560
36	<i>Prionotus</i> spp.	508
37	<i>Ophidion scrippsae</i>	480
38	<i>Etrumeus acuminatus</i>	457
39	<i>Diogenichthys atlanticus</i>	455
40	Serranidae	445
41	Gobiidae	439
42	Pleuronectiformes	435
43	<i>Parophrys vetulus</i>	401
44	Cottidae	375
45	<i>Ceratoscopelus townsendi</i>	363
46	<i>Symphurus</i> spp.	316
47	Trichiuridae	291

TABLE 3. (cont.)

Rank	Taxon	Count
48	<i>Paralichthys californicus</i>	279
48	Disintegrated fish larva	279
50	<i>Hippoglossina stomata</i>	256
51	<i>Peprilus simillimus</i>	248
52	Sternoptychidae	214
52	Myctophidae	214
54	<i>Chauliodus macouni</i>	202
55	Ophidiiformes	187
56	<i>Nansenia crassa</i>	185
57	<i>Hygophum atratum</i>	184
58	<i>Gonichthys tenuiculus</i>	179
59	<i>Chromis punctipinnis</i>	172
60	<i>Hypsoblennius</i> spp.	132
61	Anguilliformes	127
62	<i>Microstoma microstoma</i>	124
63	<i>Pleuronichthys verticalis</i>	123
64	Pomacentridae	121
65	<i>Seriola lalandi</i>	117
66	Chiasmodontidae	111
67	<i>Loweina rara</i>	106
68	Carangidae	105
69	<i>Nansenia candida</i>	102
69	Clinidae	102
71	Scopelarchidae	101
72	<i>Brosmophycis marginata</i>	95
73	<i>Microstomus pacificus</i>	91
74	<i>Poromitra</i> spp.	90
75	<i>Lampanyctus regalis</i>	89
76	Agonidae	86
77	<i>Ichthyococcus</i> spp.	82
77	<i>Cololabis saira</i>	82
79	<i>Medialuna californiensis</i>	74
80	Trachipteridae	71
81	<i>Pleuronichthys</i> spp.	70
82	<i>Glyptocephalus zachirus</i>	68
82	<i>Idiacanthus antrostomus</i>	68
82	Macrouridae	68
85	<i>Caulolatilus princeps</i>	65
86	<i>Scorpaenichthys marmoratus</i>	63
86	<i>Lampadena urophaos</i>	63
88	<i>Hygophum</i> spp.	52
89	<i>Tactostoma macropus</i>	51
90	<i>Bathylagus pacificus</i>	49
91	<i>Scopelogadus bispinosus</i>	47
92	<i>Tetragonurus cuvieri</i>	46
93	<i>Psettichthys melanostictus</i>	42
94	<i>Chilara taylori</i>	41
95	<i>Sphyraena argentea</i>	36
96	<i>Hygophum reinhardtii</i>	35

TABLE 3. (cont.)

Rank	Taxon	Count
97	<i>Myctophum nitidulum</i>	34
98	<i>Xystreurys liolepis</i>	33
99	<i>Pleuronichthys coenosus</i>	31
100	Stomiiformes	27
101	<i>Notoscopelus resplendens</i>	25
102	Cyclopteridae	24
103	<i>Myctophum aurolaternatum</i>	22
104	<i>Diplophos taenia</i>	20
105	<i>Bothus</i> spp.	19
106	Atherinidae	17
107	<i>Zaniolepis</i> spp.	15
108	<i>Etropus</i> spp.	14
109	<i>Syacium ovale</i>	12
110	<i>Syngnathus</i> spp.	10
110	Carapidae	10
110	Scombridae	10
113	<i>Oxylebius pictus</i>	9
114	<i>Pleuronichthys decurrens</i>	7
115	<i>Aristostomias scintillans</i>	6
115	<i>Bathylagus</i> spp.	6
115	Ceratioidei	6
115	<i>Brama</i> spp.	6
115	<i>Notolychnus valdiviae</i>	6
120	<i>Mugil</i> spp.	5
120	<i>Opisthonema</i> spp.	5
120	<i>Girella nigricans</i>	5
123	<i>Bregmaceros</i> spp.	4
124	<i>Seriola</i> spp.	3
124	<i>Bathophilus</i> spp.	3
124	<i>Bathylagus milleri</i>	3
124	<i>Auxis</i> spp.	3
124	Exocoetidae	3
124	<i>Sebastolobus</i> spp.	3
	Total	451982

TABLE 4. Numbers of fish larvae taken on stations occupied during CalCOFI cruises in 1954. Counts are adjusted for percent of sample sorted and standard haul factor (see text). Unoccupied stations are indicated by a dash.

Anguilliformes

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	35.0	-	0.0	0.0	0.0	0.0	0.0	-	3.2	-	-	-
100.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.7	0.0	-	-
117.0	35.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	-	0.0	-	0.0
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	3.2
120.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.9	-	0.0
123.0	40.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0	42.0	3.1	-	-	-	-	-	-	-	-	-	-
123.0	60.0	0.0	2.3	0.0	0.0	0.0	-	-	-	-	-	0.0
127.0	45.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0	47.5	-	3.0	0.0	0.0	0.0	-	-	-	-	-	0.0
127.0	50.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0	55.0	-	0.0	3.5	0.0	0.0	-	-	-	0.0	-	0.0
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	45.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	55.0	-	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
130.0	60.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0	35.0	2.5	0.0	3.0	0.0	0.0	0.0	0.0	-	-	-	-
133.0	40.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	-	-	-	-
137.0	35.0	-	0.0	3.5	0.0	0.0	0.0	0.0	-	-	-	-
137.0	45.0	-	0.0	2.9	0.0	0.0	-	-	-	-	-	-
137.0	50.0	-	0.0	0.0	3.3	0.0	-	-	-	-	-	0.0
143.0	26.0	2.7	-	-	-	-	-	-	-	-	-	0.0
143.0	35.0	2.9	-	-	-	-	-	-	-	-	-	0.0
147.0	20.0	0.0	-	-	-	-	-	-	-	-	-	2.1
147.0	25.0	30.8	-	-	-	-	-	-	-	-	-	5.9
147.0	30.0	9.4	-	-	-	-	-	-	-	-	-	0.0
157.0	10.0	-	-	-	-	-	-	-	-	-	-	2.1
157.0	20.0	-	-	-	-	-	-	-	-	-	-	2.8

Etrumeus acuminatus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	35.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	-	0.0	-	0.0
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0	45.0	-	0.0	0.0	0.0	0.0	0.0	3.0	-	2.9	-	0.0
127.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	0.0
127.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	-	0.0	-	0.0
127.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	13.9	-	0.0	-	0.0
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	-	14.6	-	4.9
130.0	35.0	11.1	0.0	0.0	0.0	0.0	0.0	5.4	-	0.0	-	0.0
130.0	45.0	-	0.0	0.0	0.0	0.0	0.0	3.4	-	0.0	-	0.0
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	41.8	-	0.0	-	0.0

TABLE 4. (cont.)

Etrumeus acuminatus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0 23.0	11.4	2.0	0.0	0.0	0.0	0.0	0.0	16.7	-	5.9	-	1.8
137.0 30.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	-	0.0	-	0.0
143.0 35.0	2.9	-	-	-	-	-	-	-	-	-	-	0.0
147.0 20.0	44.8	-	-	-	-	-	-	-	-	-	-	18.6
147.0 25.0	92.4	-	-	-	-	-	-	-	-	-	-	0.0
147.0 30.0	28.1	-	-	-	-	-	-	-	-	-	-	0.0
150.0 19.0	56.8	-	-	-	-	-	-	-	-	-	-	0.0
150.0 30.0	6.2	-	-	-	-	-	-	-	-	-	-	0.0

Opisthonema spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	-	0.0	-	0.0

Sardinops sagax

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0 60.0	-	-	-	0.0	0.0	4.8	0.0	-	0.0	-	-	-
80.0 80.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	-	0.0	0.0	-	0.0
83.0 40.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0 48.0	0.0	0.0	0.0	0.0	0.0	0.0	19.4	-	0.0	0.0	-	0.0
83.0 80.0	-	-	-	0.0	30.2	2.6	-	-	-	-	-	-
85.0 40.0	0.0	0.0	0.0	0.0	0.0	-	15.3	-	0.0	0.0	-	0.0
85.0 55.0	2.7	3.4	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	-	0.0	0.0	-	0.0
87.0 50.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0	-	0.0	0.0	-	0.0
87.0 55.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	-	0.0	0.0	-	0.0
87.0 60.0	0.0	0.0	0.0	0.0	148.0	278.4	0.0	-	0.0	0.0	-	0.0
87.0 70.0	-	-	-	0.0	11.9	-	-	-	-	-	-	-
87.0 80.0	-	-	-	0.0	0.0	21.2	-	-	-	-	-	-
90.0 37.0	0.0	0.0	0.0	0.0	0.0	0.0	150.1	-	0.0	0.0	-	0.0
90.0 45.0	0.0	0.0	0.0	0.0	0.0	9.5	6.4	-	0.0	0.0	-	0.0
90.0 50.0	-	-	-	-	12.1	0.0	-	-	-	0.0	-	0.0
90.0 55.0	-	0.0	0.0	0.0	0.0	350.7	0.0	-	0.0	0.0	-	0.0
90.0 60.0	0.0	0.0	0.0	0.0	0.0	379.6	0.0	-	0.0	0.0	-	0.0
90.0 70.0	0.0	0.0	0.0	2.8	25.1	719.9	0.0	-	0.0	0.0	-	0.0
90.0 80.0	0.0	0.0	-	0.0	0.0	84.0	-	-	-	-	-	-
93.0 30.0	0.0	0.0	0.0	0.0	27.0	0.0	0.0	-	0.0	0.0	-	0.0
93.0 35.0	-	-	0.0	0.0	28.8	14.9	-	-	0.0	0.0	-	-
93.0 40.0	0.0	0.0	0.0	0.0	4.9	-	18.1	-	0.0	0.0	-	0.0
93.0 45.0	-	-	-	0.0	121.4	241.5	0.0	-	0.0	0.0	-	0.0
93.0 50.0	0.0	0.0	-	18.5	7.7	88.4	0.0	-	0.0	0.0	-	0.0
93.0 55.0	-	-	-	0.0	121.0	466.6	-	-	0.0	0.0	-	-
93.0 60.0	0.0	0.0	-	0.0	23.0	265.6	-	-	-	-	-	-

TABLE 4. (cont.)

Sardinops sagax (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	70.0	-	0.0	0.0	54.5	26.3	-	-	-	-	-	-
93.0	90.0	-	-	3.2	0.0	-	-	-	-	-	-	-
97.0	30.0	0.0	0.0	0.0	2.6	16.2	0.0	-	15.8	0.0	-	0.0
97.0	32.0	0.0	0.0	-	24.0	59.1	0.0	-	0.0	0.0	-	0.0
97.0	36.0	-	-	-	40.3	26.4	-	-	-	-	-	-
97.0	40.0	0.0	0.0	8.8	2.8	88.0	0.0	-	0.0	0.0	-	0.0
97.0	45.0	-	-	361.9	0.0	136.5	0.0	-	0.0	0.0	-	0.0
97.0	50.0	0.0	0.0	53.3	0.0	0.0	-	-	0.0	0.0	-	0.0
97.0	55.0	-	-	3.0	0.0	0.0	-	-	-	-	-	-
97.0	60.0	0.0	4.7	5.8	0.0	0.0	-	-	-	-	-	-
97.0	70.0	-	0.0	15.5	0.0	0.0	-	-	-	-	-	-
97.0	80.0	-	-	2.8	5.5	0.0	-	-	-	-	-	-
97.0	90.0	-	-	0.0	0.0	2.7	9.7	-	0.0	0.0	-	0.0
100.0	29.0	0.0	0.0	0.0	0.0	221.6	33.2	-	0.0	0.0	-	0.0
100.0	30.0	-	0.0	0.0	64.8	121.0	0.0	-	0.0	0.0	-	0.0
100.0	35.0	-	0.0	0.0	124.2	203.3	5.5	-	0.0	0.0	-	0.0
100.0	40.0	0.0	26.6	0.0	37.8	552.7	0.0	-	0.0	0.0	-	0.0
100.0	45.0	-	15.8	0.0	0.0	0.0	2.9	-	0.0	0.0	-	-
100.0	50.0	0.0	14.6	3.0	0.0	0.0	-	-	-	-	-	-
100.0	55.0	-	0.0	20.1	3.7	0.0	-	-	-	-	-	-
100.0	60.0	0.0	0.0	30.0	0.0	0.0	0.0	0.0	-	-	-	0.0
100.0	70.0	0.0	15.8	20.3	3.5	0.0	0.0	0.0	-	-	-	0.0
100.0	80.0	0.0	33.3	3.2	0.0	3.0	0.0	-	-	-	-	-
100.0	90.0	-	4.6	0.0	3.4	2.3	-	-	-	-	-	0.0
103.0	30.0	0.0	0.0	0.0	0.0	0.0	23.3	0.0	-	0.0	-	0.0
103.0	35.0	0.0	23.3	6.3	17.4	35.0	0.0	0.0	-	0.0	-	0.0
103.0	40.0	0.0	28.4	565.7	393.0	17.3	0.0	0.0	-	0.0	-	0.0
103.0	45.0	-	26.6	55.7	82.2	371.7	-	-	-	-	-	-
103.0	50.0	0.0	77.8	15.2	0.0	0.0	-	-	-	-	-	-
103.0	55.0	-	16.9	38.8	0.0	0.0	-	-	-	-	-	-
103.0	60.0	0.0	12.8	26.5	0.0	0.0	-	-	-	-	-	-
103.0	70.0	-	-	0.0	2.7	0.0	-	-	-	-	-	-
103.0	80.0	-	-	12.9	0.0	0.0	-	-	-	-	-	-
107.0	32.0	0.0	0.0	0.0	0.0	2.9	31.1	0.0	-	3.2	-	0.0
107.0	35.0	0.0	0.0	11.0	57.8	0.0	0.0	0.0	-	0.0	-	0.0
107.0	40.0	0.0	0.0	3.7	28.6	73.7	6.6	0.0	-	0.0	-	0.0
107.0	45.0	-	172.8	9.8	20.5	39.9	-	-	-	-	-	-
107.0	50.0	0.0	0.0	112.8	6.6	5.7	-	-	-	-	-	-
107.0	55.0	-	38.2	0.0	0.0	0.0	-	-	-	-	-	-
107.0	60.0	0.0	35.4	14.0	0.0	0.0	-	-	-	-	-	-
107.0	70.0	-	-	6.8	0.0	0.0	-	-	-	-	-	-
107.0	80.0	-	-	5.9	0.0	-	-	-	-	-	-	-
110.0	33.0	0.0	0.0	0.0	199.6	0.0	0.0	0.0	-	0.0	-	0.0
110.0	35.0	0.0	0.0	16.0	138.6	8.2	0.0	0.0	-	0.0	-	0.0
110.0	40.0	0.0	0.0	9.4	0.0	3.0	0.0	0.0	-	0.0	-	0.0
110.0	45.0	-	18.1	0.0	0.0	176.3	0.0	0.0	-	0.0	-	-

TABLE 4. (cont.)

Sardinops sagax (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	50.0	0.0	302.7	3.0	0.0	33.3	0.0	0.0	-	0.0	-	0.0
110.0	55.0	-	180.1	3.0	3.4	0.0	-	-	-	0.0	-	-
110.0	60.0	0.0	13.4	3.4	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	70.0	0.0	65.5	0.0	0.0	0.0	-	-	-	-	-	-
110.0	80.0	0.0	2.3	47.9	0.0	0.0	-	-	-	-	-	-
110.0	90.0	0.0	-	2.8	5.6	-	-	-	-	-	-	-
113.0	35.0	0.0	0.0	30.5	38.8	0.0	0.0	0.0	-	0.0	-	0.0
113.0	37.5	-	0.0	120.2	38.1	0.0	-	-	-	-	-	-
113.0	40.0	0.0	9.5	107.9	0.0	2.6	0.0	0.0	-	0.0	-	0.0
113.0	42.5	-	0.0	74.8	0.0	50.6	-	-	-	-	-	-
113.0	45.0	-	2.8	134.6	5.9	41.0	-	-	-	-	-	-
113.0	47.5	-	5.6	5.8	3.2	10.3	-	-	-	-	-	0.0
113.0	50.0	0.0	64.3	6.9	2.8	0.0	-	-	-	-	-	0.0
113.0	55.0	-	81.6	12.7	0.0	3.1	-	-	-	-	-	0.0
113.0	60.0	-	190.3	0.0	0.0	0.0	-	-	-	-	-	0.0
117.0	70.0	-	-	0.0	0.0	11.3	-	0.0	-	0.0	-	0.0
117.0	26.0	-	0.0	0.0	5.2	0.0	0.0	0.0	-	-	-	0.0
117.0	28.0	-	0.0	5.4	138.6	0.0	-	-	-	-	-	-
117.0	30.0	0.0	0.0	41.4	32.9	4.9	0.0	0.0	-	12.9	-	0.0
117.0	32.5	-	0.0	31.7	50.0	0.0	-	-	-	-	-	-
117.0	35.0	0.0	0.0	13.1	65.3	0.0	0.0	0.0	-	0.0	-	0.0
117.0	37.5	-	0.0	47.3	63.0	0.0	-	-	-	-	-	-
117.0	40.0	0.0	1.7	55.7	140.7	2.6	0.0	5.8	-	0.0	-	0.0
117.0	42.5	-	0.0	22.4	7.7	5.8	-	-	-	-	-	-
117.0	45.0	-	0.0	0.0	8.4	0.0	-	-	-	-	-	-
117.0	47.5	-	0.0	14.3	191.2	0.0	-	-	-	-	-	0.0
117.0	50.0	0.0	0.0	56.2	59.8	0.0	-	-	-	-	-	0.0
117.0	55.0	-	0.0	6.2	21.0	0.0	-	-	-	-	-	0.0
117.0	60.0	-	39.6	0.0	0.0	0.0	-	-	-	0.0	-	0.0
120.0	25.0	0.0	0.0	0.0	0.0	0.0	3.4	13.7	-	-	-	0.0
120.0	27.5	-	-	0.0	31.6	0.0	-	-	-	0.0	-	0.0
120.0	30.0	2.3	0.0	10.8	17.8	0.0	0.0	4.9	-	5.1	-	0.0
120.0	32.5	-	0.0	8.2	158.0	0.0	-	-	-	-	-	-
120.0	35.0	10.6	0.0	0.0	261.4	0.0	109.9	156.6	-	1.0	-	12.2
120.0	37.5	-	0.0	0.0	27.4	0.0	-	-	-	-	-	-
120.0	40.0	-	384.6	0.0	7.6	0.0	-	-	-	-	-	3.0
120.0	42.5	-	66.0	29.9	3.3	0.0	-	-	-	-	-	-
120.0	45.0	59.0	572.0	19.5	0.0	0.0	0.0	84.2	-	0.0	-	0.0
120.0	47.5	-	39.8	259.2	0.0	0.0	-	-	-	-	-	-
120.0	50.0	63.6	32.5	75.0	15.7	0.0	0.0	0.0	-	7.9	-	0.0
120.0	55.0	-	0.0	6.0	159.8	8.1	-	-	-	-	-	-
120.0	60.0	2.9	0.0	3.3	11.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	70.0	30.2	2.4	0.0	12.7	0.0	0.0	0.0	-	0.0	-	0.0
120.0	80.0	56.1	0.0	-	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0	37.0	1468.8	69.2	0.0	0.0	0.0	30.7	8.2	-	0.0	-	2.8
123.0	40.0	56.2	530.1	132.5	6.8	0.0	2.8	0.0	-	0.0	-	0.0

TABLE 4. (cont.)

Sardinops sagax (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0	42.0	37.0	-	-	-	-	-	-	-	-	-	-
123.0	42.5	-	2.7	743.4	0.0	0.0	-	-	-	-	-	-
123.0	45.0	118.2	0.0	1276.5	0.0	0.0	0.0	187.9	-	0.0	-	0.0
123.0	47.5	-	0.0	401.4	0.0	0.0	-	-	-	-	-	-
123.0	50.0	0.0	3.0	204.6	170.1	0.0	0.0	0.0	-	0.0	-	0.0
123.0	55.0	-	0.0	43.0	123.1	0.0	-	-	-	0.0	-	0.0
123.0	60.0	-	0.0	2.8	25.8	0.0	-	-	-	-	-	-
127.0	34.0	35.5	116.6	0.0	0.0	0.0	0.0	0.0	-	-	-	0.0
127.0	37.0	-	28.4	60.3	57.2	0.0	-	-	-	-	-	-
127.0	40.0	0.0	0.0	70.7	2.9	0.0	2.9	0.0	-	0.0	-	0.0
127.0	42.5	-	0.0	25.3	3.0	3.2	0.0	-	-	-	-	-
127.0	45.0	0.0	0.0	163.7	0.0	0.0	0.0	11.8	-	0.0	-	0.0
127.0	47.5	-	0.0	42.3	0.0	0.0	-	-	-	-	-	-
127.0	50.0	0.0	0.0	36.7	0.0	2.3	8.7	111.2	-	0.0	-	0.0
127.0	55.0	-	5.9	10.6	0.0	0.0	-	-	-	0.0	-	0.0
127.0	60.0	-	0.0	43.9	0.0	0.0	-	-	-	-	-	-
130.0	30.0	22.3	0.0	0.0	0.0	0.0	7.6	38.9	-	50.5	-	29.6
130.0	35.0	3.2	375.9	7.5	0.0	0.0	0.0	16.2	-	0.0	-	26.1
130.0	40.0	0.0	14.2	14.1	0.0	0.0	0.0	0.0	-	0.0	-	3.0
130.0	45.0	0.0	0.0	22.1	0.0	0.0	2.7	3.4	-	0.0	-	-
130.0	50.0	0.0	0.0	27.5	0.0	0.0	6.2	0.0	-	0.0	-	0.0
130.0	60.0	3.8	0.0	0.0	0.0	0.0	9.8	0.0	-	0.0	-	0.0
130.0	65.0	0.0	0.0	0.0	0.0	0.0	89.6	39.1	-	0.0	-	0.0
133.0	25.0	4.5	13.0	0.0	0.0	0.0	11.5	3.2	-	0.0	-	0.0
133.0	30.0	0.0	22.7	0.0	0.0	0.0	92.6	0.0	-	0.0	-	0.0
133.0	35.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	-	-	-	-
133.0	40.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-
133.0	50.0	0.0	0.0	0.0	2.3	0.0	-	-	-	-	-	-
137.0	23.0	9.8	562.0	0.0	12.1	11.1	0.0	11.1	-	7.8	-	678.9
137.0	30.0	8.2	163.4	0.0	0.0	0.0	0.0	16.4	-	23.4	-	0.0
140.0	30.0	-	-	-	-	-	-	-	-	-	-	2.1
143.0	26.0	-	-	-	-	-	-	-	-	-	-	3.8
143.0	30.0	3.2	-	-	-	-	-	-	-	-	-	0.0
143.0	35.0	81.8	-	-	-	-	-	-	-	-	-	0.0
147.0	20.0	5.6	-	-	-	-	-	-	-	-	-	26.9
147.0	25.0	30.8	-	-	-	-	-	-	-	-	-	0.0
147.0	30.0	583.4	-	-	-	-	-	-	-	-	-	0.0
150.0	19.0	942.9	-	-	-	-	-	-	-	-	-	0.0
150.0	30.0	3.1	-	-	-	-	-	-	-	-	-	0.0

Engraulis mordax

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	60.0	-	-	0.0	0.0	0.0	11.4	0.0	-	-	-	-
63.0	52.0	-	-	1.9	0.0	0.0	0.0	3.5	-	-	-	-
67.0	50.0	-	-	2.2	0.0	0.0	0.0	20.4	-	-	-	-

TABLE 4. (cont.)

Engraulis mordax (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
73.0	50.0	-	-	0.0	0.0	0.0	-	-	11.8	-	-	-
73.0	60.0	-	-	0.0	0.0	3.0	-	-	46.0	-	-	-
77.0	50.0	339.0	5.7	0.0	-	0.0	603.7	-	0.0	17.0	-	-
77.0	55.0	222.9	0.0	0.0	0.0	0.0	949.3	-	0.0	0.0	-	-
77.0	65.0	-	-	0.0	0.0	-	63.1	-	0.0	-	-	-
80.0	51.0	451.1	1197.8	3.8	0.0	4.4	379.3	-	8.0	45.0	-	182.2
80.0	55.0	53.3	217.9	0.0	0.0	11.2	54.7	-	112.4	0.0	-	3.4
80.0	60.0	8.7	30.0	0.0	0.0	11.4	18.2	-	47.5	39.6	-	0.0
80.0	70.0	0.0	0.0	0.0	0.0	-	5.0	-	0.0	0.0	-	2.6
80.0	80.0	4.4	0.0	0.0	0.0	0.0	0.0	-	0.0	6.3	-	0.0
82.0	47.0	42.1	130.7	0.0	0.0	18.8	277.3	-	21.9	18.5	-	90.4
83.0	40.0	716.8	162.4	1.4	57.8	20.6	8.4	-	0.0	34.5	-	602.8
83.0	43.0	255.8	56.8	12.8	0.0	0.0	130.5	-	0.0	76.8	-	73.2
83.0	48.0	172.5	241.1	4.3	0.0	0.0	600.2	-	2.6	13.4	-	46.3
83.0	51.0	186.7	189.6	0.0	0.0	7.7	187.1	-	2.3	0.0	-	6.3
83.0	55.0	72.6	91.8	0.0	22.8	110.3	92.0	-	0.0	0.0	-	0.0
83.0	60.0	11.8	0.0	0.0	0.0	13.7	86.0	-	6.3	8.8	-	0.0
85.0	80.0	-	-	0.0	0.0	2.6	-	-	-	-	-	-
85.0	39.0	492.0	1896.9	18.6	8.1	62.5	-	-	21.8	5.8	-	1709.3
85.0	40.0	511.7	217.3	12.4	0.0	-	170.8	-	0.0	9.0	-	646.0
85.0	45.0	185.0	689.4	78.0	11.8	103.9	90.4	-	12.1	0.0	-	9.2
85.0	50.0	79.5	53.3	0.0	61.9	171.6	53.8	-	0.0	0.0	-	6.3
85.0	55.0	37.4	163.2	0.0	0.0	175.8	97.7	-	0.0	3.8	-	0.0
85.0	60.0	8.6	53.4	0.0	5.8	197.8	171.4	-	3.2	0.0	-	0.0
87.0	35.0	167.3	1130.2	0.0	17.1	248.7	167.2	-	17.3	0.0	-	59.4
87.0	40.0	417.7	1803.4	0.0	0.0	125.5	43.4	-	9.3	-	-	9.4
87.0	45.0	684.7	199.9	0.0	63.8	19.3	193.4	-	2.5	0.0	-	12.4
87.0	50.0	100.2	846.6	0.0	5.8	36.0	2.5	-	11.8	11.4	-	15.5
87.0	55.0	8.9	0.0	0.0	0.0	232.3	0.0	-	0.0	0.0	-	0.0
87.0	60.0	38.9	2.7	0.0	0.0	0.0	12.8	-	0.0	3.0	-	0.0
90.0	28.0	218.4	1285.0	4.6	239.8	94.8	128.0	-	23.9	7.9	-	69.7
90.0	30.0	1190.7	1037.4	8.2	216.3	375.9	325.5	-	29.0	28.2	-	41.2
90.0	33.5	-	-	-	20.9	471.5	-	-	-	-	-	-
90.0	37.0	607.6	550.6	3.0	34.7	177.1	8.3	-	19.5	11.4	-	6.6
90.0	41.0	-	-	-	135.7	183.3	-	-	-	-	-	-
90.0	45.0	178.9	400.0	0.0	0.0	69.0	0.0	-	8.1	0.0	-	7.0
90.0	50.0	-	-	-	0.0	9.8	-	-	-	0.0	-	0.0
90.0	53.0	60.9	-	-	-	-	-	-	-	-	-	-
90.0	55.0	-	6.3	2.8	0.0	0.0	0.0	-	0.0	2.8	-	-
90.0	60.0	14.6	2.5	0.0	30.3	0.0	176.0	-	0.0	0.0	-	2.9
90.0	70.0	0.0	0.0	0.0	0.0	0.0	339.9	-	0.0	0.0	-	0.0
93.0	27.0	286.0	871.3	607.6	1088.0	342.4	1194.1	-	80.8	5.8	-	9.2
93.0	30.0	266.8	571.7	205.0	0.0	298.5	309.4	-	35.7	35.5	-	0.0
93.0	35.0	-	-	217.5	26.2	314.8	3.3	-	18.8	-	-	-
93.0	40.0	381.8	275.6	45.6	36.9	-	0.0	-	0.0	5.9	-	3.2
93.0	45.0	-	-	60.1	0.0	112.1	0.0	-	0.0	0.0	-	-

TABLE 4. (cont.)

Engraulis mordax (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	50.0	21.4	10.3	-	20.5	6.1	21.4	-	0.0	0.0	-	0.0
93.0	55.0	-	-	9.3	5.3	207.4	-	-	-	0.0	-	-
93.0	60.0	7.6	175.3	3.3	2.6	19.9	-	-	-	-	-	-
93.0	70.0	-	-	0.0	2.0	0.0	-	-	-	-	-	-
97.0	30.0	235.0	1295.9	64.3	33.7	24.3	269.0	-	91.6	89.0	-	11.7
97.0	32.0	2043.6	303.7	412.7	86.4	38.5	0.0	-	16.4	155.8	-	6.3
97.0	36.0	-	-	-	171.4	99.0	-	-	-	-	-	-
97.0	40.0	145.1	115.2	5.0	0.0	5.7	0.0	-	0.0	0.0	-	3.1
97.0	45.0	-	-	8.7	5.3	101.0	0.0	-	0.0	8.6	-	-
97.0	50.0	275.5	11.2	13.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
97.0	70.0	-	-	0.0	3.2	0.0	-	-	-	-	-	-
100.0	29.0	50.9	1095.6	153.4	87.0	65.8	12.2	-	31.0	34.6	-	65.1
100.0	30.0	192.7	282.5	180.9	221.9	18.7	21.3	-	78.0	194.7	-	44.5
100.0	35.0	-	-	1094.4	49.2	66.2	0.0	-	16.0	-	-	-
100.0	40.0	410.0	76.0	322.6	12.1	80.1	0.0	-	0.0	60.8	-	0.0
100.0	45.0	-	-	110.8	0.0	6.0	0.0	-	0.0	6.5	-	-
100.0	50.0	60.0	0.0	15.1	0.0	0.0	0.0	-	0.0	0.0	-	-
100.0	55.0	-	-	5.7	0.0	0.0	-	-	-	0.0	-	-
100.0	60.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
100.0	90.0	0.0	-	0.0	3.4	0.0	-	-	-	0.0	-	0.0
103.0	30.0	123.5	1352.3	61.6	2.5	2.7	36.6	95.5	-	44.5	-	0.0
103.0	35.0	734.7	0.0	25.4	12.4	0.0	2.8	341.3	-	85.5	-	15.4
103.0	40.0	62.7	0.0	0.0	42.0	0.0	0.0	0.0	-	0.0	-	6.2
103.0	45.0	-	0.0	0.0	0.0	11.8	-	-	-	-	-	-
103.0	50.0	0.0	3.1	0.0	0.0	0.0	-	-	-	-	-	-
103.0	60.0	1.9	0.0	0.0	0.0	0.0	-	-	-	-	-	-
107.0	32.0	15.7	1361.5	229.2	1292.1	0.0	96.9	101.3	-	25.7	-	20.9
107.0	35.0	11.6	5.1	18.3	132.0	0.0	0.0	16.4	-	17.8	-	183.1
107.0	40.0	10.6	27.8	7.3	15.6	0.0	42.9	92.8	-	0.0	-	0.0
107.0	45.0	-	0.0	6.5	0.0	9.2	-	-	-	-	-	-
107.0	50.0	-	0.0	58.2	0.0	0.0	-	-	-	-	-	-
107.0	60.0	24.4	0.0	0.0	0.0	0.0	-	-	-	-	-	-
110.0	33.0	92.6	601.8	119.4	283.4	0.0	0.0	2.7	-	20.0	-	40.2
110.0	35.0	1.9	116.5	57.4	12.3	2.7	2.9	0.0	-	17.6	-	5.6
110.0	40.0	2.5	0.0	9.4	0.0	0.0	0.0	0.0	-	0.0	-	6.4
110.0	45.0	-	18.5	0.0	0.0	0.0	0.0	0.0	-	0.0	-	-
110.0	55.0	-	-	9.1	0.0	0.0	-	-	-	0.0	-	-
110.0	60.0	2.1	0.0	20.3	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	70.0	7.5	-	0.0	3.0	0.0	-	-	-	-	-	-
110.0	80.0	0.0	-	0.0	0.0	2.8	-	-	-	-	-	-
113.0	30.0	27.4	200.9	23.8	0.0	118.0	9.5	62.1	-	0.0	-	125.1
113.0	32.5	-	262.6	219.2	0.0	38.4	0.0	0.0	-	0.0	-	0.0
113.0	35.0	240.6	534.5	141.3	114.2	11.3	0.0	0.0	-	0.0	-	0.0
113.0	37.5	-	0.0	33.4	0.0	12.4	-	-	-	-	-	-
113.0	40.0	46.7	49.3	7.0	0.0	2.6	0.0	0.0	-	10.0	-	0.0
113.0	50.0	0.0	0.0	2.3	0.0	2.7	-	-	-	-	-	278.6

TABLE 4. (cont.)

Engraulis mordax (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	55.0	-	0.0	12.7	0.0	0.0	-	-	-	-	-	-
117.0	26.0	-	61.7	174.5	518.8	10.8	7.2	27.8	-	5.2	-	4.8
117.0	28.0	-	13.3	32.4	304.9	6.1	-	-	-	-	-	-
117.0	30.0	119.3	216.3	261.6	150.4	24.5	0.0	20.5	-	25.8	-	160.1
117.0	32.5	-	31.1	355.0	89.0	0.0	-	-	-	-	-	-
117.0	35.0	116.8	535.9	49.2	59.8	0.0	0.0	0.0	-	5.9	-	73.5
117.0	37.5	-	117.4	111.2	25.2	0.0	-	-	-	-	-	-
117.0	40.0	45.0	129.5	786.5	0.0	0.0	0.0	0.0	-	0.0	-	122.0
117.0	42.5	-	99.1	11.2	3.8	0.0	-	-	-	-	-	-
117.0	45.0	133.0	0.0	10.9	0.0	6.0	-	-	-	-	-	-
117.0	47.5	-	0.0	0.0	26.3	0.0	-	-	-	-	-	-
117.0	50.0	372.4	0.0	11.2	34.9	6.1	-	-	-	-	-	0.0
117.0	55.0	0.0	76.7	6.2	2.1	0.0	-	-	-	-	-	-
117.0	60.0	0.0	0.0	3.5	7.3	0.0	-	-	-	-	-	0.0
117.0	70.0	-	-	3.0	0.0	0.0	-	-	-	-	-	-
120.0	25.0	138.0	93.5	408.7	109.2	0.0	20.5	4.6	-	2.4	-	3.7
120.0	27.5	-	-	314.4	1064.8	2.4	-	-	-	-	-	-
120.0	30.0	18.6	396.0	195.1	1422.7	20.9	0.0	61.8	-	2.6	-	0.0
120.0	32.5	-	1438.2	84.3	209.8	21.4	-	-	-	-	-	-
120.0	35.0	34.5	358.4	23.0	735.7	8.5	3.1	2.6	-	1.0	-	18.2
120.0	37.5	32.0	24.1	3.1	37.2	7.9	-	-	-	-	-	-
120.0	40.0	1423.0	80.8	40.3	0.0	0.0	-	-	-	-	-	9.1
120.0	42.5	717.6	192.0	332.9	3.3	12.4	-	-	-	-	-	-
120.0	45.0	433.6	998.4	396.8	5.9	2.7	11.5	11.0	-	5.8	-	2.4
120.0	47.5	-	1218.4	622.1	3.3	0.0	-	-	-	-	-	-
120.0	50.0	129.8	208.7	150.0	54.9	0.0	41.5	0.0	-	11.8	-	0.0
120.0	55.0	527.2	73.4	3.0	222.0	0.0	-	-	-	-	-	-
120.0	60.0	30.8	160.5	23.2	0.0	0.0	0.0	0.0	-	3.7	-	0.0
120.0	70.0	468.5	24.3	14.9	35.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	80.0	55.1	11.5	-	442.5	0.0	0.0	0.0	-	0.0	-	0.0
120.0	90.0	-	3.5	-	3.5	0.0	0.0	0.0	-	0.0	-	0.0
123.0	37.0	458.0	49.4	314.1	66.3	4.2	7.7	2.7	-	0.0	-	0.0
123.0	40.0	614.4	812.3	4541.1	184.1	15.1	0.0	6.7	-	0.0	-	0.0
123.0	42.0	1001.0	-	-	-	-	-	-	-	-	-	-
123.0	42.5	-	19.2	2142.0	15.9	2.6	-	-	-	-	-	-
123.0	45.0	1239.3	12.8	3857.1	13.2	0.0	0.0	9.1	-	0.0	-	0.0
123.0	47.5	-	36.4	1354.9	36.1	0.0	-	-	-	-	-	-
123.0	50.0	188.8	21.0	211.8	384.3	0.0	0.0	100.2	-	0.0	-	0.0
123.0	55.0	-	85.1	443.9	285.1	0.0	-	-	-	0.0	-	0.0
123.0	60.0	-	37.0	5.6	218.1	0.0	-	-	-	-	-	-
127.0	34.0	165.5	621.9	1798.4	473.6	3.0	42.0	0.0	-	-	-	9.3
127.0	37.0	-	320.9	2552.7	243.1	19.2	-	-	-	-	-	-
127.0	40.0	17.5	95.8	904.0	44.0	-	11.6	2.8	-	0.0	-	0.0
127.0	42.5	-	13.4	256.8	30.2	3.2	-	-	-	-	-	-
127.0	45.0	3.1	5.8	692.2	0.0	0.0	0.0	20.6	-	0.0	-	0.0
127.0	47.5	-	0.0	689.0	0.0	0.0	-	-	-	-	-	-

TABLE 4: (cont.)

Engraulis mordax (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
127.0	50.0	647.0	33.9	0.0	479.4	0.0	52.2	61.2	-	6.3	-	0.0
127.0	55.0	-	-	0.0	31.9	0.0	-	-	-	0.0	-	0.0
127.0	60.0	0.0	-	0.0	263.6	6.6	-	-	-	-	-	-
130.0	30.0	111.4	97.7	1.9	1301.5	5.3	0.0	6.0	-	0.0	-	375.4
130.0	35.0	221.6	15.8	3850.6	418.5	6.5	4.1	0.0	-	0.0	-	272.6
130.0	40.0	0.0	12.2	426.0	109.6	10.6	0.0	4.7	-	0.0	-	12.2
130.0	45.0	-	0.0	54.8	391.8	0.0	0.0	0.0	-	0.0	-	-
130.0	50.0	0.0	0.0	593.6	20.9	0.0	49.3	0.0	-	0.0	-	0.0
130.0	55.0	-	2.9	10.5	14.9	0.0	-	-	-	0.0	-	-
130.0	60.0	3.5	1.9	0.0	30.8	0.0	45.5	0.0	-	0.0	-	0.0
133.0	25.0	6395.8	2020.5	2161.1	81.5	0.0	16.8	5.2	-	0.0	-	2.3
133.0	30.0	980.2	74.9	154.4	30.2	1069.0	97.6	0.0	-	0.0	-	0.0
133.0	35.0	-	66.7	0.0	54.2	0.0	620.8	0.0	-	-	-	-
133.0	40.0	0.0	45.8	0.0	9.0	5.4	5.7	0.0	-	-	-	-
133.0	45.0	-	-	0.0	0.0	5.7	-	-	-	-	-	-
133.0	50.0	0.0	-	0.0	2.9	2.7	-	-	-	-	-	-
133.0	60.0	-	-	-	0.0	-	-	-	-	-	-	-
137.0	23.0	1201.3	70.6	831.8	223.5	0.0	5.1	2.8	-	0.0	-	353.2
137.0	30.0	451.4	1170.0	238.2	306.2	150.7	52.2	2.7	-	0.0	-	0.0
137.0	35.0	-	-	0.0	92.0	0.0	-	-	-	-	-	-
137.0	40.0	0.0	-	0.0	3.5	0.0	-	-	-	-	-	-
140.0	30.0	20.4	-	-	-	-	-	-	-	-	-	2.1
147.0	25.0	6.2	-	-	-	-	-	-	-	-	-	0.0
150.0	19.0	2.8	-	-	-	-	-	-	-	-	-	0.0

Argentina sialis

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0	50.0	0.0	0.0	0.0	-	0.0	12.3	-	0.0	0.0	-	-
80.0	51.0	0.0	0.0	0.0	0.0	0.0	2.0	-	0.0	0.0	-	0.0
85.0	50.0	0.0	0.0	0.0	0.0	0.0	2.8	-	0.0	0.0	-	3.2
87.0	35.0	0.0	0.0	0.0	0.0	3.1	0.0	-	0.0	0.0	-	0.0
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	3.1
87.0	50.0	1.6	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	2.9
90.0	33.5	-	-	-	2.3	0.0	-	-	0.0	3.1	-	-
90.0	50.0	-	-	-	0.0	4.9	-	-	0.0	0.0	-	0.0
100.0	29.0	0.0	0.0	0.0	0.0	2.7	0.0	-	0.0	0.0	-	0.0
100.0	30.0	2.3	0.0	0.0	0.0	10.7	0.0	-	0.0	0.0	-	0.0
103.0	30.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	-	0.0
107.0	32.0	2.6	0.0	0.0	47.2	0.0	0.0	0.0	0.0	0.0	-	3.0
107.0	35.0	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	-	0.0
107.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.4
110.0	33.0	0.0	0.0	8.0	9.7	0.0	0.0	0.0	-	0.0	-	14.3
110.0	35.0	0.0	0.0	6.4	3.1	0.0	0.0	0.0	-	0.0	-	5.6

TABLE 4. (cont.)

Argentina sialis (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	30.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	-	0.0	-	0.0
113.0	32.5	-	0.0	27.4	28.7	0.0	-	-	-	-	-	-
113.0	35.0	0.0	0.0	52.6	10.2	0.0	0.0	0.0	-	0.0	-	4.7
113.0	37.5	-	0.0	0.0	24.5	6.2	-	-	-	-	-	-
113.0	40.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	-	0.0	-	0.0
117.0	26.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	-	0.0	-	0.0
117.0	28.0	-	0.0	5.4	9.2	6.1	-	-	-	-	-	-
117.0	30.0	0.0	0.0	7.8	7.0	2.9	0.0	0.0	-	0.0	-	0.0
117.0	32.5	-	0.0	76.1	27.8	4.9	-	-	-	-	-	-
117.0	35.0	15.8	0.0	13.1	103.4	0.0	0.0	2.6	-	0.0	-	7.1
117.0	37.5	-	0.0	5.6	9.5	0.0	-	-	-	-	-	-
117.0	40.0	8.9	0.0	0.0	0.0	0.0	0.0	0.0	-	4.4	-	22.5
117.0	42.5	-	0.0	0.0	0.0	2.9	-	-	-	-	-	-
117.0	55.0	-	0.0	0.0	0.0	3.2	-	-	-	-	-	-
120.0	25.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	-	0.0	-	0.0
120.0	27.5	-	-	0.0	2.9	2.4	-	-	-	-	-	-
120.0	30.0	0.0	0.0	21.7	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	32.5	-	0.0	8.2	10.4	0.0	-	-	-	-	-	-
120.0	35.0	0.0	0.0	66.2	4.8	0.0	0.0	0.0	-	0.0	-	0.0
120.0	37.5	-	0.0	3.1	0.0	0.0	-	-	-	-	-	-
120.0	42.5	0.0	4.0	0.0	0.0	0.0	-	-	-	-	-	-
120.0	45.0	2.7	15.6	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	47.5	-	5.7	0.0	16.3	0.0	-	-	-	-	-	-
120.0	50.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	55.0	-	0.0	3.0	5.9	0.0	-	-	-	0.0	-	-
120.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	80.0	0.0	2.9	-	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0	37.0	0.0	2.5	6.0	0.0	4.2	0.0	0.0	-	0.0	-	0.0
123.0	40.0	0.0	5.7	0.0	3.4	0.0	0.0	0.0	-	0.0	-	0.0
123.0	42.0	-	-	-	-	-	-	-	-	-	-	-
123.0	42.5	-	0.0	18.9	3.2	0.0	-	-	-	-	-	-
123.0	45.0	-	0.0	6.9	2.6	0.0	0.0	0.0	-	0.0	-	0.0
123.0	50.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0	34.0	0.0	0.0	11.2	3.0	6.0	2.2	0.0	-	0.0	-	0.0
127.0	40.0	0.0	0.0	3.7	0.0	-	2.9	0.0	-	-	-	-
127.0	42.5	-	0.0	21.1	0.0	0.0	-	-	-	-	-	-
127.0	45.0	-	0.0	3.4	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0	60.0	-	0.0	0.0	0.0	0.0	-	-	-	-	-	-
130.0	30.0	0.0	0.0	12.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	35.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0	30.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0	35.0	-	0.0	3.0	0.0	0.0	0.0	0.0	-	-	-	-
133.0	40.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	-	-	-	-
137.0	30.0	0.0	2.8	10.4	0.0	0.0	0.0	2.7	-	0.0	-	0.0

TABLE 4. (cont.)

Microstoma microstoma

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	80.0	-	-	0.0	0.0	0.0	0.0	-	2.8	-	-	-
60.0	90.0	-	-	0.0	0.0	0.0	0.0	-	2.6	-	-	-
80.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0	70.0	0.0	0.0	0.0	0.0	-	0.0	-	2.5	0.0	-	0.0
83.0	90.0	-	-	4.5	0.0	2.6	-	-	-	-	-	-
87.0	70.0	-	-	0.0	3.0	-	-	-	-	-	-	-
90.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	3.5
90.0	80.0	0.0	-	0.0	0.0	3.4	-	-	-	-	-	-
90.0	90.0	1.8	-	0.0	0.0	-	-	-	-	-	-	-
93.0	60.0	3.8	-	0.0	0.0	0.0	-	-	-	-	-	-
97.0	36.0	-	-	-	0.0	6.6	-	-	-	-	-	-
97.0	40.0	0.0	0.0	2.9	0.0	0.0	2.6	-	0.0	0.0	-	0.0
97.0	50.0	0.0	0.0	0.0	0.0	0.0	3.5	-	0.0	0.0	-	0.0
97.0	90.0	-	-	0.0	2.8	0.0	0.0	-	2.9	0.0	-	0.0
100.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.0	0.0	-	-
100.0	45.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	-	-
100.0	55.0	-	-	0.0	0.0	2.8	-	-	-	0.0	-	-
100.0	60.0	0.0	0.0	0.0	0.0	2.5	0.0	5.8	-	0.0	-	0.0
103.0	35.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	-	0.0	-	0.0
103.0	40.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
103.0	50.0	0.0	0.0	0.0	0.0	3.1	-	-	-	-	-	-
107.0	50.0	-	-	0.0	3.3	0.0	-	-	-	-	-	-
110.0	45.0	-	-	0.0	0.0	0.0	0.0	0.0	-	0.0	-	-
110.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.3	-	0.0
113.0	40.0	2.5	0.0	0.0	3.2	0.0	0.0	0.0	-	0.0	-	0.0
113.0	45.0	-	-	0.0	2.9	0.0	-	-	-	-	-	-
117.0	35.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
117.0	45.0	-	-	0.0	0.0	3.0	-	-	-	-	-	-
117.0	47.5	-	-	0.0	2.4	0.0	-	-	-	-	-	-
120.0	40.0	-	-	0.0	0.0	0.0	-	-	-	-	-	0.0
120.0	60.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	-	0.0	-	0.0
120.0	80.0	0.0	0.0	-	3.5	0.0	0.0	0.0	-	0.0	-	0.0
137.0	50.0	0.0	0.0	0.0	0.0	2.6	-	-	-	-	-	-

Nansenia candida

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	70.0	-	-	1.8	0.0	0.0	0.0	0.0	-	-	-	-
60.0	80.0	-	-	2.5	0.0	0.0	0.0	0.0	0.0	-	-	-
70.0	80.0	-	-	-	5.5	0.0	0.0	-	0.0	-	-	-
70.0	90.0	-	-	4.6	2.7	0.0	-	-	-	-	-	-
73.0	60.0	-	-	0.0	0.0	3.0	-	-	0.0	-	-	0.0
80.0	60.0	0.0	0.0	2.4	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	60.0	0.0	0.0	0.0	0.0	0.0	12.3	-	0.0	0.0	-	-
83.0	80.0	-	-	2.9	0.0	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

Nansenia candida (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0 80.0	-	-	-	5.2	2.8	0.0	-	-	-	-	-	-
87.0 90.0	-	-	-	0.0	11.3	0.0	-	-	-	-	-	-
90.0 80.0	0.0	0.0	-	0.0	3.5	0.0	-	-	-	-	-	-
93.0 80.0	-	-	-	3.0	0.0	-	-	-	-	-	-	-
93.0 90.0	-	-	-	3.2	0.0	-	-	-	-	-	-	-
97.0 45.0	-	-	-	0.0	2.6	0.0	0.0	-	0.0	0.0	-	-
97.0 80.0	-	-	-	3.1	0.0	0.0	-	-	-	-	-	-
97.0 90.0	-	-	-	2.8	0.0	2.6	-	-	-	-	-	-
100.0 40.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	-	0.0	0.0	-	0.0
100.0 90.0	0.0	-	0.0	0.0	0.0	2.3	-	-	-	0.0	-	0.0
103.0 45.0	-	0.0	0.0	2.9	0.0	0.0	-	-	-	-	-	-
103.0 60.0	0.0	0.0	0.0	0.0	2.8	0.0	-	-	-	-	-	-
103.0 70.0	-	-	-	0.0	2.7	0.0	-	-	-	-	-	-
103.0 80.0	-	-	-	0.0	3.4	0.0	-	-	-	-	-	-
107.0 80.0	-	-	-	0.0	4.1	-	-	-	-	-	-	-
110.0 55.0	-	-	0.0	0.0	3.4	0.0	-	-	-	0.0	-	-

Nansenia crassa

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0 32.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	-	0.0	-	0.0
107.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	-	0.0	-	0.0
110.0 35.0	0.0	0.0	0.0	0.0	0.0	2.7	2.9	3.1	-	0.0	-	0.0
110.0 60.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0 47.5	-	-	0.0	5.8	0.0	7.7	-	-	-	-	-	-
113.0 60.0	-	0.0	0.0	0.0	3.0	0.0	-	-	-	-	-	0.0
113.0 70.0	-	-	0.0	0.0	3.0	0.0	0.0	-	-	-	-	0.0
117.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	-	0.0	-	0.0
117.0 42.5	-	-	0.0	0.0	3.8	0.0	-	-	-	-	-	-
120.0 45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	-	0.0	-	0.0
120.0 60.0	0.0	0.0	2.3	0.0	2.7	0.0	0.0	0.0	-	0.0	-	0.0
120.0 70.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0 40.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	-	0.0	-	0.0
123.0 45.0	-	0.0	0.0	0.0	0.0	3.1	2.9	0.0	-	0.0	-	0.0
123.0 47.5	-	-	5.6	0.0	0.0	0.0	-	-	-	-	-	-
123.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.3	-	0.0	-	0.0
123.0 60.0	0.0	-	0.0	2.8	0.0	0.0	-	-	-	-	-	-
127.0 50.0	3.4	0.0	3.1	3.5	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0 55.0	-	-	2.9	0.0	0.0	0.0	-	-	-	-	-	-
127.0 60.0	3.1	-	0.0	0.0	0.0	0.0	-	-	-	-	-	-
130.0 30.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	-	0.0	-	0.0
130.0 40.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0 45.0	-	0.0	2.5	6.3	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0 50.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0

TABLE 4. (cont.)

Nansenia crassa (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0 35.0	-	0.0	2.8	6.0	0.0	0.0	0.0	0.0	-	-	-	-
133.0 45.0	-	-	8.9	0.0	0.0	0.0	-	-	-	-	-	-
133.0 50.0	0.0	-	10.1	2.9	0.0	0.0	-	-	-	-	-	-
137.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
137.0 40.0	0.0	-	0.0	3.5	0.0	0.0	-	-	-	-	-	-
137.0 45.0	-	-	7.7	0.0	0.0	0.0	-	-	-	-	-	-
137.0 50.0	5.5	-	5.6	8.7	0.0	0.0	-	-	-	-	-	0.0
140.0 35.0	2.6	-	-	-	-	-	-	-	-	-	-	2.7
157.0 30.0	-	-	-	-	-	-	-	-	-	-	-	-

Bathylagus spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 55.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0

Bathylagus milleri

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 55.0	-	-	-	2.8	0.0	0.0	0.0	0.0	-	-	-	-

Bathylagus ochotensis

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0 80.0	-	-	-	-	-	13.6	-	-	-	-	-	-
50.0 90.0	-	-	-	-	-	6.2	-	-	-	-	-	-
50.0 100.0	-	-	-	-	-	9.8	-	-	-	-	-	-
53.0 65.0	-	-	-	-	-	2.5	-	-	-	-	-	-
57.0 51.0	-	-	-	-	-	3.8	-	-	-	-	-	-
60.0 55.0	-	-	-	5.5	0.0	0.0	0.0	0.0	-	-	-	-
60.0 60.0	-	-	-	0.0	22.6	0.0	22.9	0.0	-	-	-	-
60.0 70.0	-	-	-	30.8	0.0	6.9	10.3	0.0	-	-	-	-
60.0 80.0	-	-	-	4.9	0.0	20.6	5.9	-	0.0	-	-	-
60.0 90.0	-	-	-	15.8	13.3	0.0	2.7	-	0.0	-	-	-
63.0 52.0	-	-	-	0.0	0.0	1.9	0.0	0.0	-	-	-	-
63.0 55.0	-	-	-	0.0	6.9	27.6	0.0	0.0	-	-	-	-
67.0 50.0	-	-	-	0.0	4.2	2.3	0.0	0.0	-	-	-	-
67.0 55.0	-	-	-	0.0	29.1	0.0	0.0	0.0	-	-	-	-
67.0 65.0	-	-	-	-	-	25.1	0.0	0.0	-	-	-	-
70.0 51.0	-	-	-	-	5.1	-	-	-	-	-	-	-
70.0 55.0	-	-	-	24.7	9.6	0.0	5.7	-	0.0	-	-	-
70.0 60.0	-	-	-	11.3	0.0	4.8	0.0	-	0.0	-	-	-
70.0 70.0	-	-	-	36.6	4.3	15.5	0.0	-	0.0	-	-	-
70.0 80.0	-	-	-	-	5.5	0.0	0.0	-	0.0	-	-	-

TABLE 4. (cont.)

Bathylagus ochotensis (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	90.0	-	-	18.3	0.0	0.0	-	-	-	-	-	-
73.0	50.0	-	-	5.6	11.1	0.0	-	-	0.0	-	-	-
73.0	60.0	-	-	0.0	11.5	0.0	-	-	0.0	-	-	-
77.0	50.0	4.5	0.0	20.0	-	0.0	0.0	-	0.0	0.0	-	-
77.0	55.0	14.7	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-
77.0	65.0	-	-	5.2	5.8	-	10.5	-	0.0	-	-	-
80.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0	60.0	0.0	11.4	4.9	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0	70.0	0.0	5.4	2.9	8.4	-	0.0	-	0.0	0.0	-	0.0
80.0	80.0	50.4	10.4	2.5	2.6	0.0	5.1	-	0.0	0.0	-	0.0
80.0	90.0	5.4	8.6	0.0	0.0	0.0	2.6	-	0.0	0.0	-	0.0
80.0	100.0	2.2	-	-	-	0.0	-	-	0.0	-	-	0.0
82.0	47.0	0.0	9.3	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	51.0	0.0	0.0	2.5	0.0	0.0	0.0	-	0.0	0.0	-	3.2
83.0	55.0	2.4	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	60.0	2.4	11.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	80.0	-	-	0.0	2.5	0.0	-	-	-	-	-	-
83.0	90.0	-	-	2.3	0.0	2.6	-	-	-	-	-	-
85.0	40.0	2.1	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0
85.0	45.0	2.7	0.0	0.0	5.9	0.0	0.0	-	0.0	0.0	-	3.1
85.0	50.0	5.5	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0	55.0	13.4	0.0	2.5	8.8	0.0	0.0	-	0.0	0.0	-	0.0
85.0	60.0	2.2	23.4	0.0	17.3	24.7	0.0	-	0.0	0.0	-	0.0
87.0	35.0	1.4	0.0	0.0	0.0	3.1	0.0	-	0.0	0.0	-	0.0
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	45.0	13.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	50.0	1.6	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	55.0	8.9	0.0	6.2	4.3	10.6	0.0	-	0.0	0.0	-	0.0
87.0	60.0	0.0	0.0	0.0	14.8	0.0	0.0	-	0.0	0.0	-	0.0
87.0	80.0	0.0	-	10.4	0.0	0.0	-	-	-	-	-	-
87.0	90.0	-	-	0.0	2.8	0.0	-	-	-	-	-	-
90.0	28.0	3.9	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	30.0	4.2	0.0	0.0	5.3	0.0	0.0	-	0.0	0.0	-	0.0
90.0	37.0	3.3	0.0	0.0	0.0	2.0	0.0	-	0.0	0.0	-	3.5
90.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-
90.0	53.0	2.9	-	-	-	-	-	-	-	-	-	-
90.0	55.0	-	0.0	2.8	0.0	3.3	0.0	-	0.0	0.0	-	5.7
90.0	60.0	11.3	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	70.0	0.0	0.0	0.0	0.0	6.3	0.0	-	0.0	0.0	-	0.0
90.0	80.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-
90.0	110.0	2.8	-	-	-	0.0	-	-	-	-	-	-
93.0	30.0	2.3	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
93.0	40.0	2.6	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
93.0	50.0	8.0	-	0.0	10.2	0.0	0.0	-	0.0	0.0	-	0.0

TABLE 4. (cont.)

Bathylagus ochotensis (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	55.0	-	-	0.0	5.3	25.9	-	-	-	0.0	-	-
93.0	60.0	34.0	-	0.0	10.2	6.6	-	-	-	-	-	-
93.0	80.0	-	-	0.0	2.3	-	-	-	-	-	-	-
97.0	32.0	2.5	0.0	-	0.0	0.0	0.0	-	0.0	0.0	-	0.0
97.0	40.0	8.4	0.0	5.8	0.0	0.0	0.0	-	0.0	0.0	-	0.0
97.0	45.0	-	-	0.0	13.2	8.2	0.0	-	0.0	0.0	-	0.0
97.0	50.0	5.6	0.0	6.5	0.0	0.0	0.0	-	0.0	0.0	-	0.0
97.0	55.0	-	-	0.0	0.0	5.4	-	-	-	0.0	-	-
97.0	60.0	0.0	4.7	0.0	2.0	0.0	-	-	-	-	-	-
97.0	70.0	-	6.9	0.0	6.5	2.7	-	-	-	-	-	-
97.0	80.0	-	-	6.2	0.0	2.7	-	-	-	-	-	-
97.0	90.0	-	-	2.8	0.0	2.6	-	-	-	-	-	-
100.0	29.0	0.0	0.0	0.0	0.0	5.5	0.0	-	0.0	0.0	-	0.0
100.0	30.0	0.0	0.0	0.0	2.9	0.0	0.0	-	0.0	0.0	-	0.0
100.0	35.0	-	0.0	0.0	2.6	0.0	2.8	-	0.0	0.0	-	0.0
100.0	40.0	9.5	0.0	0.0	0.0	3.1	2.8	-	0.0	0.0	-	0.0
100.0	45.0	-	0.0	0.0	0.0	0.0	3.4	-	0.0	0.0	-	0.0
100.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	55.0	-	19.2	0.0	7.5	0.0	-	-	-	0.0	-	0.0
100.0	60.0	0.0	10.1	0.0	10.6	0.0	0.0	0.0	-	0.0	-	0.0
100.0	70.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
100.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
103.0	40.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	3.1
103.0	50.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-
103.0	60.0	0.0	4.9	0.0	2.8	0.0	-	-	-	-	-	-
107.0	35.0	0.0	0.0	0.0	16.5	0.0	0.0	0.0	-	0.0	-	0.0
107.0	45.0	-	0.0	16.3	0.0	3.1	-	-	-	-	-	-
107.0	55.0	-	0.0	3.4	2.9	0.0	-	-	-	-	-	-
107.0	60.0	0.0	0.0	3.5	0.0	0.0	-	-	-	-	-	-
110.0	33.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	40.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	45.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	-	0.0	-	-
110.0	55.0	-	3.2	0.0	0.0	0.0	-	-	-	0.0	-	-
113.0	37.5	-	0.0	0.0	2.7	0.0	-	-	-	-	-	-
113.0	40.0	0.0	0.0	0.0	6.3	0.0	0.0	0.0	-	0.0	-	0.0
117.0	47.5	-	0.0	0.0	2.4	0.0	-	-	-	-	-	-
117.0	50.0	0.0	0.0	0.0	2.5	0.0	-	-	-	-	-	0.0
117.0	60.0	-	0.0	0.0	2.4	0.0	-	-	-	-	-	0.0
123.0	47.5	-	0.0	3.9	0.0	0.0	-	-	-	-	-	0.0
123.0	50.0	0.0	0.0	0.0	6.3	0.0	0.0	0.0	-	0.0	-	0.0

Bathylagus pacificus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
73.0	60.0	-	-	1.8	0.0	0.0	-	-	0.0	-	-	-

TABLE 4. (cont.)

Bathylagus pacificus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0	55.0	0.0	2.8	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-
80.0	60.0	0.0	6.7	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0	70.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	2.6
80.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	51.0	0.0	2.8	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	55.0	0.0	5.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	35.0	0.0	2.7	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
103.0	50.0	0.0	3.1	0.0	0.0	0.0	-	-	-	-	-	-
107.0	32.0	0.0	11.2	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
107.0	50.0	-	0.0	0.0	3.3	0.0	-	-	-	-	-	-

Bathylagus wesethi

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	80.0	-	-	0.0	0.0	0.0	0.0	-	2.8	-	-	-
70.0	70.0	-	-	0.0	0.0	0.0	15.5	-	0.0	-	-	-
70.0	80.0	-	-	-	2.7	0.0	15.9	-	0.0	-	-	-
70.0	90.0	-	-	0.0	5.5	3.4	-	-	-	-	-	-
70.0	100.0	-	-	-	-	14.6	-	-	-	-	-	-
80.0	80.0	0.0	0.0	0.0	0.0	3.0	10.2	-	2.8	0.0	-	0.0
80.0	90.0	0.0	0.0	0.0	2.5	3.0	18.2	-	0.0	3.1	-	0.0
80.0	100.0	0.0	-	-	-	16.5	-	-	3.0	-	-	-
83.0	80.0	-	-	2.9	0.0	0.0	-	-	-	-	-	-
83.0	90.0	-	-	2.3	5.6	2.6	-	-	-	-	-	-
85.0	50.0	0.0	3.3	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	80.0	-	-	10.4	28.3	7.1	-	-	-	-	-	-
87.0	90.0	-	-	0.0	64.9	9.3	-	-	-	-	-	-
90.0	60.0	0.0	0.0	0.0	0.0	3.4	0.0	-	0.0	0.0	-	0.0
90.0	70.0	0.0	0.0	0.0	0.0	6.3	11.7	-	0.0	0.0	-	0.0
90.0	80.0	0.0	-	0.0	87.3	20.2	-	-	-	-	-	-
90.0	90.0	0.0	-	11.4	2.7	-	-	-	-	-	-	-
93.0	35.0	-	-	0.0	0.0	0.0	13.3	-	0.0	-	-	-
93.0	55.0	-	-	0.0	15.8	0.0	-	-	-	0.0	-	-
93.0	60.0	0.0	-	0.0	25.6	0.0	-	-	-	-	-	-
93.0	70.0	-	0.0	0.0	0.0	18.4	-	-	-	-	-	-
93.0	80.0	-	0.0	0.0	92.0	-	-	-	-	-	-	-
93.0	90.0	-	-	3.2	29.3	-	-	-	-	-	-	-
97.0	32.0	0.0	0.0	-	0.0	0.0	5.6	-	0.0	0.0	-	0.0
97.0	40.0	0.0	0.0	2.9	19.7	0.0	7.9	-	2.8	0.0	-	0.0
97.0	45.0	-	-	0.0	207.8	2.7	0.0	-	3.1	0.0	-	0.0
97.0	50.0	0.0	0.0	3.3	29.7	46.2	0.0	-	2.5	0.0	-	-
97.0	55.0	-	-	0.0	23.1	51.7	-	-	-	0.0	-	-
97.0	60.0	0.0	0.0	0.0	10.1	12.9	-	-	-	-	-	-
97.0	70.0	-	20.6	0.0	38.9	10.8	-	-	-	-	-	-

TABLE 4. (cont.)

Bathylagus wesethi (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	80.0	-	-	3.1	2.9	0.0	-	-	-	-	-	-
97.0	90.0	-	-	8.5	135.7	67.1	-	-	-	-	-	-
100.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.9	0.0	-	0.0
100.0	35.0	-	0.0	0.0	7.8	8.6	0.0	-	0.0	-	-	-
100.0	40.0	0.0	0.0	0.0	12.1	9.2	0.0	-	5.9	0.0	-	0.0
100.0	45.0	-	0.0	0.0	20.6	0.0	3.4	-	17.8	0.0	-	-
100.0	50.0	0.0	0.0	0.0	101.8	45.3	11.7	-	5.4	0.0	-	-
100.0	55.0	-	0.0	2.9	119.7	72.0	-	-	-	0.0	-	-
100.0	60.0	0.0	0.0	9.0	37.1	141.4	26.3	14.6	-	0.0	-	0.0
100.0	70.0	0.0	9.0	0.0	31.2	44.0	6.3	26.8	-	0.0	-	0.0
100.0	80.0	2.6	30.7	3.2	84.8	9.1	2.9	-	-	12.2	-	-
100.0	90.0	-	27.8	11.6	53.9	42.1	-	-	-	0.0	-	0.0
100.0	100.0	-	-	5.9	3.4	-	-	-	-	-	-	-
103.0	30.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	-	2.8	-	0.0
103.0	35.0	0.0	0.0	0.0	5.0	2.9	2.8	6.0	-	2.3	-	0.0
103.0	40.0	0.0	0.0	6.5	0.0	5.8	10.1	5.9	-	0.0	-	0.0
103.0	45.0	0.0	0.0	79.1	2.6	41.3	-	-	-	-	-	-
103.0	50.0	0.0	7.3	27.4	115.6	47.1	-	-	-	-	-	-
103.0	55.0	-	11.2	7.8	113.5	39.3	-	-	-	-	-	-
103.0	60.0	3.3	0.0	41.2	107.3	79.8	-	-	-	-	-	-
103.0	70.0	-	-	15.0	48.2	17.5	-	-	-	-	-	-
103.0	80.0	-	-	51.7	68.6	0.0	-	-	-	-	-	-
103.0	90.0	-	-	-	12.7	-	-	-	-	-	-	-
107.0	32.0	0.0	0.0	3.1	0.0	40.6	3.5	0.0	-	3.2	-	0.0
107.0	35.0	0.0	0.0	0.0	0.0	3.3	3.2	5.5	-	11.9	-	0.0
107.0	40.0	0.0	0.0	0.0	5.2	6.1	3.3	10.7	-	2.8	-	0.0
107.0	45.0	-	9.6	3.3	5.9	3.1	-	-	-	-	-	-
107.0	50.0	-	4.9	7.3	83.0	34.4	-	-	-	-	-	-
107.0	55.0	-	1.7	6.9	48.6	146.9	-	-	-	-	-	-
107.0	60.0	0.0	2.4	7.0	23.4	172.8	-	-	-	-	-	-
107.0	70.0	-	-	10.2	62.8	44.9	-	-	-	-	-	-
107.0	80.0	-	-	23.5	32.4	-	-	-	-	-	-	-
110.0	33.0	0.0	0.0	0.0	9.7	0.0	0.0	10.6	-	0.0	-	0.0
110.0	35.0	0.0	0.0	0.0	12.3	8.2	17.5	21.9	-	0.0	-	0.0
110.0	40.0	0.0	0.0	31.4	41.9	6.0	35.4	28.5	-	0.0	-	0.0
110.0	45.0	0.0	6.0	2.9	14.0	88.2	30.3	0.0	-	0.0	-	-
110.0	50.0	0.0	41.9	5.9	28.6	172.7	20.9	49.6	-	2.8	-	0.0
110.0	55.0	-	34.8	12.2	104.5	40.8	-	-	-	2.7	-	-
110.0	60.0	0.0	0.0	3.4	59.5	24.7	18.8	0.0	-	0.0	-	0.0
110.0	70.0	-	5.5	19.3	48.6	60.6	-	-	-	-	-	-
110.0	80.0	-	7.0	140.4	35.4	25.5	-	-	-	-	-	-
110.0	90.0	-	-	28.4	55.8	-	-	-	-	-	-	-
113.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	5.2	-	0.0
113.0	35.0	0.0	0.0	0.0	6.1	2.8	10.6	45.6	-	0.0	-	0.0
113.0	37.5	-	12.7	10.0	5.4	0.0	-	-	-	-	-	-
113.0	40.0	0.0	6.3	41.8	6.3	5.2	6.0	11.7	-	6.7	-	0.0

TABLE 4. (cont.)

Bathylagus wesethi (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	42.5	-	19.9	32.0	2.8	112.4	-	-	-	-	-	-
113.0	45.0	-	8.5	21.4	44.1	56.3	-	-	-	-	-	-
113.0	47.5	-	30.8	29.2	153.6	123.4	-	-	-	-	-	-
113.0	50.0	0.0	7.8	9.2	164.1	5.4	-	-	-	-	-	0.0
113.0	55.0	-	23.8	9.5	30.9	9.2	-	-	-	-	-	-
113.0	60.0	-	0.0	20.8	29.6	5.7	-	-	-	-	-	0.0
113.0	70.0	-	-	64.1	63.2	16.9	-	-	-	-	-	-
117.0	35.0	0.0	0.0	0.0	5.4	16.7	0.0	0.0	-	0.0	-	0.0
117.0	37.5	-	0.0	2.8	3.2	0.0	-	-	-	-	-	-
117.0	40.0	0.0	0.0	3.7	0.0	5.3	3.0	0.0	-	0.0	-	0.0
117.0	42.5	-	0.0	25.2	15.3	8.7	-	-	-	-	-	-
117.0	45.0	-	0.0	73.4	8.4	3.0	-	-	-	-	-	-
117.0	47.5	-	0.0	82.9	2.4	0.0	-	-	-	-	-	-
117.0	50.0	0.0	0.0	45.0	10.0	0.0	-	-	-	-	-	0.0
117.0	55.0	-	0.0	21.7	25.2	12.7	-	-	-	-	-	-
117.0	60.0	-	0.0	0.0	116.6	5.5	-	-	-	-	-	0.0
117.0	70.0	-	-	3.0	8.4	0.0	-	-	-	-	-	-
120.0	45.0	0.0	0.0	0.0	0.0	2.7	0.0	18.3	-	0.0	-	0.0
120.0	47.5	-	0.0	0.0	0.0	18.6	-	-	-	-	-	-
120.0	50.0	0.0	0.0	0.0	0.0	5.7	0.0	14.2	-	3.9	-	0.0
120.0	55.0	-	0.0	12.0	8.9	0.0	-	-	-	-	-	-
120.0	60.0	0.0	0.0	3.3	19.2	2.4	12.8	44.7	-	0.0	-	0.0
120.0	70.0	0.0	0.0	8.9	47.7	0.0	0.0	32.8	-	0.0	-	0.0
120.0	80.0	0.0	0.0	-	14.2	18.3	6.4	114.0	-	6.6	-	0.0
120.0	90.0	-	0.0	-	14.0	0.0	0.0	46.1	-	8.8	-	0.0
123.0	37.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	-	0.0	-	0.0
123.0	40.0	0.0	0.0	0.0	20.5	6.5	0.0	0.0	-	0.0	-	0.0
123.0	42.5	-	0.0	0.0	0.0	5.2	-	-	-	-	-	-
123.0	45.0	-	0.0	0.0	2.6	15.7	20.0	12.1	-	5.7	-	0.0
123.0	47.5	-	0.0	0.0	0.0	5.8	-	-	-	-	-	-
123.0	50.0	0.0	0.0	0.0	6.3	2.7	0.0	0.0	-	13.0	-	0.0
123.0	55.0	-	0.0	3.6	0.0	12.2	-	-	-	0.0	-	0.0
123.0	60.0	-	2.3	2.8	2.9	2.9	2.2	-	-	-	-	0.0
127.0	34.0	0.0	0.0	5.6	5.9	0.0	-	0.0	-	-	-	-
127.0	37.0	-	0.0	4.0	28.6	4.8	-	-	-	-	-	-
127.0	40.0	0.0	0.0	0.0	0.0	-	11.6	0.0	-	0.0	-	0.0
127.0	42.5	-	0.0	4.2	0.0	0.0	-	-	-	-	-	-
127.0	45.0	-	0.0	3.4	6.3	11.8	0.0	8.9	-	0.0	-	0.0
127.0	47.5	-	0.0	3.3	2.9	0.0	-	-	-	-	-	-
127.0	50.0	0.0	0.0	0.0	0.0	4.6	5.8	2.8	-	3.2	-	0.0
127.0	55.0	-	0.0	3.5	0.0	2.9	-	-	-	0.0	-	0.0
127.0	60.0	-	0.0	6.8	0.0	8.0	-	-	-	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	-	0.0	-	0.0
130.0	40.0	0.0	0.0	0.0	0.0	2.8	2.8	0.0	-	5.2	-	0.0
130.0	45.0	-	0.0	6.3	0.0	6.2	5.4	3.4	-	0.0	-	-
130.0	50.0	0.0	0.0	0.0	6.0	2.9	3.1	0.0	-	15.4	-	0.0

TABLE 4. (cont.)

Bathylagus wesethi (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0	55.0	0.0	0.0	0.0	3.0	0.0	-	-	-	13.5	-	-
130.0	60.0	1.9	0.0	0.0	3.4	0.0	0.0	0.0	-	7.6	-	0.0
133.0	45.0	-	0.0	0.0	3.3	0.0	-	-	-	-	-	-
137.0	40.0	-	0.0	0.0	0.0	3.1	-	-	-	-	-	-
137.0	45.0	-	0.0	0.0	0.0	2.9	-	-	-	-	-	-
137.0	50.0	-	0.0	0.0	0.0	2.6	-	-	-	-	-	-
150.0	50.0	-	-	-	-	-	-	-	-	-	-	-
157.0	20.0	-	-	-	-	-	-	-	-	-	-	8.5

Leuroglossus stilbuis

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	70.0	-	-	1.8	0.0	0.0	0.0	0.0	-	-	-	-
60.0	90.0	-	-	2.3	0.0	0.0	0.0	-	0.0	-	-	-
63.0	55.0	-	-	0.0	2.3	0.0	0.0	0.0	0.0	-	-	-
67.0	55.0	-	-	2.4	0.0	0.0	0.0	0.0	-	-	-	-
70.0	51.0	-	-	-	2.5	-	-	-	-	-	-	-
70.0	52.0	-	-	-	-	0.0	12.0	-	0.0	-	-	-
70.0	55.0	-	-	3.8	4.8	11.3	0.0	-	0.0	-	-	-
73.0	50.0	-	-	2.8	0.0	0.0	-	-	0.0	-	-	-
77.0	50.0	0.0	5.7	6.7	-	0.0	12.3	-	0.0	0.0	-	-
77.0	55.0	19.3	0.0	0.0	5.6	2.4	0.0	-	0.0	0.0	-	-
77.0	65.0	-	-	2.6	0.0	-	0.0	-	0.0	-	-	-
80.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	16.1
80.0	55.0	14.1	0.0	0.0	4.5	11.2	0.0	-	0.0	0.0	-	79.1
80.0	60.0	20.0	0.0	2.4	9.9	22.7	0.0	-	5.9	3.3	-	6.3
80.0	70.0	3.4	0.0	0.0	4.2	-	0.0	-	0.0	3.7	-	0.0
80.0	80.0	0.0	2.6	0.0	2.6	0.0	0.0	-	0.0	0.0	-	5.6
80.0	90.0	23.8	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	3.2
82.0	47.0	0.0	0.0	14.6	5.1	0.0	7.0	-	2.7	0.0	-	591.1
83.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	4.6
83.0	43.0	22.7	0.0	4.3	0.0	0.0	5.8	-	0.0	0.0	-	29.8
83.0	48.0	145.2	5.4	0.0	0.0	0.0	0.0	-	0.0	0.0	-	131.7
83.0	51.0	614.1	19.7	0.0	0.0	0.0	1.9	-	0.0	0.0	-	130.0
83.0	55.0	76.9	0.0	7.6	0.0	0.0	0.0	-	3.3	0.0	-	0.0
83.0	60.0	30.6	11.0	0.0	0.0	0.0	0.0	-	3.2	0.0	-	2.9
85.0	39.0	6.0	40.5	0.0	6.5	7.5	-	-	0.0	0.0	-	203.8
85.0	40.0	13.3	30.7	24.8	0.0	-	2.5	-	1.6	0.0	-	145.5
85.0	45.0	14.9	0.0	26.0	29.4	2.0	7.5	-	0.0	0.0	-	52.0
85.0	50.0	8.9	19.9	4.2	8.8	7.5	5.1	-	0.0	0.0	-	148.1
85.0	55.0	227.8	0.0	0.0	8.8	0.0	5.1	-	2.7	0.0	-	3.0
85.0	60.0	147.0	3.2	0.0	17.3	0.0	0.0	-	9.6	0.0	-	2.8
87.0	35.0	204.8	90.0	0.0	4.3	6.1	0.0	-	0.0	0.0	-	93.4
87.0	40.0	109.8	0.0	2.8	3.5	3.1	0.0	-	0.0	-	-	131.9
87.0	45.0	15.8	88.1	0.0	25.5	0.0	0.0	-	2.5	0.0	-	142.1

TABLE 4. (cont.)

Leuroglossus stilbius (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	50.0	4.8	11.5	0.0	7.8	0.0	0.0	-	4.7	0.0	-	12.9
87.0	55.0	40.1	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	6.3
87.0	60.0	2.3	2.7	0.0	0.0	0.0	0.0	-	0.0	3.0	-	0.0
87.0	90.0	-	-	0.0	0.0	2.3	-	-	0.0	-	-	-
90.0	28.0	13.7	0.0	0.0	4.3	6.3	2.6	-	0.0	0.0	-	7.7
90.0	30.0	46.2	125.6	0.0	37.4	15.2	9.4	-	0.0	0.0	-	32.3
90.0	33.5	-	11.2	-	4.6	12.3	-	-	-	-	-	-
90.0	37.0	3.3	29.8	0.0	0.0	13.9	0.0	-	0.0	0.0	-	26.2
90.0	41.0	-	-	-	12.9	7.0	-	-	-	-	-	-
90.0	45.0	4.0	212.1	0.0	20.8	11.9	3.2	-	0.0	2.9	-	52.7
90.0	50.0	-	5.3	-	9.6	14.8	-	-	0.0	0.0	-	6.7
90.0	53.0	11.6	-	-	-	-	-	-	-	-	-	-
90.0	55.0	-	6.3	2.8	2.6	0.0	0.0	-	0.0	2.8	-	-
90.0	60.0	27.5	15.2	0.0	18.2	0.0	6.5	-	0.0	3.2	-	48.8
90.0	70.0	0.0	0.0	0.0	0.0	0.0	11.7	-	0.0	0.0	-	0.0
93.0	27.0	1.3	6.2	0.0	3.4	6.3	0.0	-	0.0	0.0	-	0.0
93.0	30.0	28.1	31.1	12.5	7.4	30.4	14.3	-	0.0	0.0	-	2.9
93.0	35.0	-	-	14.5	7.9	5.9	3.3	-	0.0	-	-	-
93.0	40.0	28.4	23.9	0.0	12.3	-	0.0	-	0.0	3.0	-	6.4
93.0	45.0	-	-	11.4	5.5	0.0	0.0	-	0.0	0.0	-	-
93.0	50.0	40.2	20.6	0.0	10.2	9.1	0.0	-	0.0	0.0	-	16.3
93.0	55.0	-	-	4.0	5.3	0.0	-	-	-	0.0	-	-
93.0	60.0	90.7	15.2	10.0	20.5	6.6	-	-	-	-	-	-
93.0	70.0	-	-	14.2	6.1	5.3	-	-	-	-	-	-
97.0	30.0	1.3	4.6	5.7	2.6	0.0	0.0	-	0.0	0.0	-	0.0
97.0	32.0	96.2	27.6	-	33.6	7.7	0.0	-	0.0	0.0	-	0.0
97.0	36.0	-	-	-	15.1	0.0	-	-	-	-	-	-
97.0	40.0	2.8	22.5	67.2	2.8	17.0	2.6	-	0.0	0.0	-	3.1
97.0	45.0	-	-	8.7	5.3	10.9	7.4	-	0.0	0.0	-	-
97.0	50.0	20.9	11.2	6.5	0.0	0.0	7.1	-	0.0	0.0	-	0.0
97.0	55.0	-	-	0.0	2.6	2.7	-	-	2.5	-	-	-
97.0	60.0	14.6	0.0	0.0	0.0	0.0	-	-	-	-	-	-
97.0	70.0	-	0.0	0.0	9.7	0.0	-	-	-	-	-	-
97.0	80.0	-	-	0.0	2.9	0.0	-	-	-	-	-	-
97.0	90.0	-	-	0.0	2.8	0.0	-	-	-	-	-	-
100.0	29.0	2.7	0.0	0.0	2.9	0.0	0.0	-	0.0	0.0	-	0.0
100.0	30.0	9.4	0.0	2.7	40.9	26.7	2.4	-	0.0	0.0	-	0.0
100.0	35.0	-	-	49.0	64.8	14.4	0.0	-	0.0	-	-	-
100.0	40.0	33.2	76.0	25.5	18.2	15.4	13.8	-	0.0	0.0	-	0.0
100.0	45.0	-	-	2.8	3.4	42.3	3.4	-	0.0	0.0	-	-
100.0	50.0	27.0	5.9	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-
100.0	55.0	-	-	0.0	0.0	0.0	-	-	-	0.0	-	-
100.0	60.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	-	0.0	-	0.0
100.0	70.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	-	0.0	-	0.0
100.0	80.0	0.0	5.2	0.0	0.0	3.0	0.0	-	-	0.0	-	-
103.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	2.9

TABLE 4. (cont.)

Leuroglossus stilbius (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0	35.0	28.4	0.0	11.6	6.3	0.0	32.1	0.0	-	0.0	-	0.0
103.0	40.0	19.3	0.0	2.6	6.5	27.0	8.7	0.0	-	0.0	-	0.0
103.0	45.0	-	0.0	0.0	0.0	5.1	0.0	-	-	-	-	-
103.0	50.0	2.6	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
103.0	60.0	0.0	0.0	0.0	0.0	2.8	0.0	-	-	-	-	-
107.0	32.0	2.6	0.0	7.2	3.1	17.7	5.8	0.0	-	0.0	-	0.0
107.0	35.0	0.0	0.0	0.0	7.3	93.5	0.0	0.0	-	0.0	-	0.0
107.0	40.0	3.5	0.0	8.6	23.4	23.4	12.3	0.0	-	2.8	-	0.0
107.0	45.0	-	0.0	0.0	13.0	11.7	15.3	0.0	-	-	-	-
107.0	50.0	-	0.0	2.4	0.0	0.0	0.0	-	-	-	-	-
107.0	60.0	8.1	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
110.0	33.0	0.0	13.6	0.0	35.8	9.7	0.0	0.0	-	0.0	-	0.0
110.0	35.0	5.8	4.5	2.7	35.1	3.1	5.4	0.0	-	0.0	-	0.0
110.0	40.0	0.0	0.0	2.0	28.3	0.0	0.0	0.0	-	0.0	-	0.0
110.0	45.0	-	0.0	3.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	50.0	0.0	0.0	3.2	0.0	0.0	0.0	3.1	-	0.0	-	0.0
113.0	32.5	-	-	0.0	2.7	0.0	0.0	-	-	-	-	-
113.0	35.0	5.9	10.5	0.0	19.4	8.2	2.8	0.0	-	0.0	-	4.7
113.0	37.5	-	-	0.0	3.3	0.0	3.1	0.0	-	-	-	-
113.0	40.0	0.0	14.5	0.0	3.5	0.0	0.0	0.0	-	0.0	-	0.0
113.0	60.0	-	0.0	13.8	0.0	0.0	0.0	0.0	-	-	-	0.0
117.0	28.0	-	-	0.0	2.7	4.6	0.0	-	-	-	-	-
117.0	30.0	0.0	17.0	0.0	0.0	7.0	0.0	0.0	-	0.0	-	0.0
117.0	32.5	-	-	3.1	6.3	5.6	0.0	-	-	-	-	-
117.0	35.0	18.4	27.8	9.3	6.6	10.9	0.0	0.0	-	0.0	-	0.0
117.0	37.5	-	-	16.5	16.7	3.2	0.0	0.0	-	0.0	-	12.8
117.0	40.0	3.0	8.4	1.7	0.0	0.0	0.0	0.0	-	-	-	-
117.0	42.5	-	-	0.0	0.0	3.8	5.8	-	-	-	-	-
117.0	45.0	-	2.8	0.0	0.0	11.2	23.8	-	-	-	-	-
117.0	47.5	-	-	14.0	8.6	2.4	3.0	-	-	-	-	-
117.0	50.0	0.0	12.8	11.7	2.8	10.0	42.7	-	-	-	-	0.0
117.0	55.0	-	0.0	27.4	18.6	2.1	0.0	-	-	-	-	0.0
117.0	60.0	-	0.0	0.0	0.0	7.3	0.0	-	-	-	-	0.0
117.0	70.0	-	-	-	0.0	0.0	10.2	-	-	-	-	-
120.0	27.5	-	-	-	3.3	0.0	0.0	-	-	-	-	-
120.0	30.0	0.0	0.0	0.0	26.8	0.0	0.0	0.0	-	0.0	-	0.0
120.0	42.5	-	56.2	6.0	37.4	0.0	9.9	-	-	-	-	-
120.0	45.0	2.7	23.4	36.4	38.9	0.0	0.0	3.7	-	0.0	-	0.0
120.0	47.5	-	-	11.4	32.4	3.3	0.0	-	-	-	-	-
120.0	50.0	0.0	3.1	0.0	15.0	35.3	5.7	0.0	-	0.0	-	0.0
120.0	55.0	-	18.2	25.3	36.0	14.8	56.5	-	-	-	-	-
120.0	60.0	2.9	2.4	24.9	0.0	0.0	7.3	0.0	-	0.0	-	0.0
120.0	70.0	0.0	5.5	7.3	0.0	3.2	3.2	0.0	-	0.0	-	0.0
120.0	80.0	0.0	0.0	2.9	-	3.5	0.0	0.0	-	0.0	-	0.0
120.0	90.0	-	-	13.9	-	14.0	0.0	0.0	-	0.0	-	0.0
123.0	37.0	0.0	0.0	7.4	6.0	0.0	0.0	0.0	-	0.0	-	0.0

TABLE 4. (cont.)

Leuroglossus stilbius (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0	40.0	0.0	38.4	239.4	14.7	78.4	19.4	0.0	0.0	0.0	-	0.0
123.0	42.0	-	21.6	-	-	-	-	-	-	-	-	-
123.0	42.5	-	-	16.4	81.9	0.0	0.0	-	-	-	-	-
123.0	45.0	-	9.1	58.9	55.2	26.4	0.0	0.0	0.0	0.0	-	0.0
123.0	47.5	-	-	39.2	15.4	42.6	0.0	-	-	-	-	-
123.0	50.0	0.0	2.2	30.0	17.9	207.9	0.0	0.0	0.0	0.0	-	0.0
123.0	55.0	-	-	98.6	14.3	68.0	0.0	-	-	0.0	-	3.6
123.0	60.0	0.0	-	9.2	0.0	97.6	0.0	-	-	-	-	-
127.0	34.0	3.0	0.0	0.0	0.0	5.9	0.0	0.0	-	-	-	0.0
127.0	37.0	-	5.7	92.5	14.7	51.5	0.0	-	-	-	-	-
127.0	40.0	9.1	0.0	22.3	14.7	14.7	2.9	0.0	0.0	0.0	-	0.0
127.0	42.5	-	-	105.3	45.3	3.2	-	-	-	-	-	-
127.0	45.0	-	3.1	8.6	0.0	0.0	0.0	3.0	0.0	0.0	-	0.0
127.0	47.5	-	-	3.0	0.0	0.0	-	-	-	-	-	-
127.0	60.0	0.0	-	5.3	20.3	0.0	-	-	-	-	-	-
130.0	30.0	0.0	19.5	0.0	12.8	0.0	0.0	0.0	0.0	0.0	-	0.0
130.0	35.0	0.0	28.4	111.8	75.4	3.2	0.0	0.0	0.0	0.0	-	0.0
130.0	40.0	0.0	0.0	5.7	19.7	2.8	2.8	0.0	0.0	0.0	-	0.0
130.0	45.0	-	0.0	0.0	12.6	0.0	0.0	0.0	0.0	0.0	-	0.0
130.0	50.0	0.0	2.9	0.0	9.2	0.0	3.1	0.0	-	0.0	-	0.0
130.0	55.0	-	0.0	4.0	3.5	0.0	2.7	-	-	0.0	-	-
130.0	60.0	3.5	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0
133.0	25.0	0.0	0.0	0.0	16.8	2.3	0.0	0.0	0.0	0.0	-	0.0
133.0	30.0	0.0	0.0	4.5	45.6	12.1	0.0	0.0	0.0	0.0	-	0.0
133.0	35.0	-	0.0	2.8	51.2	6.2	0.0	0.0	-	-	-	-
133.0	40.0	0.0	0.0	0.0	0.0	24.2	0.0	0.0	-	-	-	-
133.0	45.0	-	-	0.0	0.0	6.5	0.0	-	-	-	-	-
137.0	23.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0
137.0	30.0	0.0	0.0	5.5	59.2	3.3	11.6	0.0	0.0	0.0	-	0.0
137.0	35.0	-	0.0	0.0	24.8	0.0	-	-	-	-	-	-
137.0	40.0	0.0	0.0	10.5	10.5	5.5	-	-	-	-	-	-
137.0	50.0	0.0	-	0.0	0.0	0.0	-	-	-	-	-	-
140.0	30.0	2.9	-	-	-	0.0	-	-	-	-	-	0.0

Stomiiformes

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	90.0	-	-	0.0	0.0	3.4	-	-	-	-	-	-
80.0	100.0	0.0	-	-	11.0	-	-	-	0.0	-	-	-
113.0	55.0	-	0.0	0.0	3.1	-	-	-	-	-	-	-
120.0	80.0	0.0	0.0	-	3.5	0.0	0.0	0.0	-	0.0	-	0.0
127.0	55.0	-	2.9	0.0	0.0	-	-	-	-	0.0	-	0.0
150.0	50.0	2.7	-	-	-	-	-	-	-	-	-	-

TABLE 4. (cont.)

Cyclothone spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	80.0	-	-	0.0	0.0	0.0	0.0	-	2.8	-	-	-
70.0	70.0	-	-	0.0	0.0	3.1	0.0	-	0.0	-	-	-
70.0	80.0	-	-	-	0.0	0.0	8.0	-	2.6	-	-	-
70.0	90.0	-	-	0.0	0.0	3.4	-	-	-	-	-	-
80.0	70.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	2.6
80.0	80.0	0.0	0.0	0.0	0.0	0.0	7.7	-	0.0	0.0	-	0.0
80.0	90.0	8.1	0.0	0.0	0.0	0.0	0.0	-	2.8	3.1	-	0.0
80.0	100.0	0.0	0.0	0.0	0.0	0.0	-	-	14.9	-	-	-
83.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	2.9
87.0	90.0	-	0.0	0.0	5.6	7.0	-	-	-	-	-	-
90.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.0	2.8	-	-
90.0	60.0	2.5	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	90.0	-	-	5.7	0.0	-	0.0	-	-	-	-	-
93.0	45.0	-	-	0.0	0.0	0.0	0.0	-	2.2	0.0	-	-
93.0	80.0	-	-	0.0	2.3	-	0.0	-	-	-	-	-
97.0	40.0	0.0	0.0	0.0	2.8	0.0	0.0	-	0.0	0.0	-	0.0
97.0	45.0	-	0.0	0.0	10.5	0.0	0.0	-	0.0	0.0	-	-
97.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.5	0.0	-	0.0
97.0	55.0	-	0.0	0.0	0.0	2.7	-	-	-	0.0	-	-
97.0	60.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-
97.0	80.0	-	-	3.1	0.0	0.0	-	-	-	-	-	-
97.0	90.0	-	-	19.7	13.9	0.0	-	-	-	-	-	-
100.0	35.0	-	0.0	0.0	0.0	8.6	0.0	-	0.0	-	-	-
100.0	45.0	-	0.0	0.0	0.0	0.0	0.0	-	14.9	0.0	-	-
100.0	50.0	0.0	0.0	0.0	3.2	0.0	5.9	-	18.8	0.0	-	-
100.0	55.0	-	0.0	0.0	0.0	0.0	-	-	-	3.4	-	-
100.0	60.0	0.0	0.0	0.0	0.0	7.4	0.0	20.4	-	0.0	-	0.0
100.0	70.0	3.2	15.8	2.9	0.0	0.0	3.1	6.0	-	11.6	-	14.8
100.0	80.0	0.0	0.0	0.0	13.0	0.0	5.7	-	-	27.4	-	-
100.0	90.0	0.0	0.0	0.0	20.2	0.0	-	-	-	20.6	-	0.0
100.0	100.0	-	0.0	5.9	3.4	-	-	-	-	-	-	-
103.0	45.0	0.0	0.0	26.4	0.0	0.0	-	-	-	-	-	-
103.0	50.0	0.0	0.0	0.0	2.4	6.3	-	-	-	-	-	-
103.0	55.0	-	0.0	3.9	5.8	48.3	-	-	-	-	-	-
103.0	60.0	0.0	0.0	0.0	16.5	23.9	-	-	-	-	-	-
103.0	70.0	-	-	3.0	18.8	8.7	-	-	-	-	-	-
103.0	80.0	-	-	16.1	13.7	0.0	-	-	-	-	-	-
107.0	45.0	3.0	2.4	6.5	0.0	0.0	-	-	-	-	-	-
107.0	50.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-
107.0	55.0	-	0.0	0.0	0.0	12.2	-	-	-	-	-	-
107.0	60.0	0.0	0.0	0.0	0.0	36.0	-	-	-	-	-	-
107.0	70.0	-	-	0.0	14.0	0.0	-	-	-	-	-	-
107.0	80.0	-	-	0.0	24.3	-	-	-	-	-	-	-
110.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	-	0.0	-	0.0
110.0	45.0	0.0	3.0	0.0	3.5	9.1	0.0	0.0	-	0.0	-	-
110.0	50.0	0.0	0.0	0.0	0.0	6.1	3.5	3.1	-	0.0	-	0.0

TABLE 4. (cont.)

Cyclothone spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	55.0	-	3.2	0.0	3.4	5.1	-	-	-	0.0	-	-
110.0	60.0	0.0	0.0	0.0	7.0	2.7	0.0	0.0	-	3.3	-	0.0
110.0	70.0	0.0	0.0	9.6	3.0	6.1	-	-	-	-	-	-
110.0	80.0	0.0	21.1	0.0	0.0	0.0	-	-	-	-	-	-
110.0	90.0	0.0	-	0.0	2.8	-	-	-	-	-	-	-
110.0	100.0	2.3	-	-	-	-	-	-	-	-	-	-
113.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.6	-	0.0
113.0	35.0	0.0	1.4	0.0	0.0	0.0	0.0	4.8	-	0.0	-	0.0
113.0	37.5	-	2.5	0.0	0.0	0.0	-	-	-	-	-	-
113.0	40.0	0.0	0.0	0.0	3.2	2.6	3.0	2.9	-	0.0	-	0.0
113.0	42.5	-	5.7	0.0	5.6	5.6	-	-	-	-	-	-
113.0	47.5	-	11.2	5.8	0.0	0.0	-	-	-	-	-	-
113.0	50.0	3.3	0.0	0.0	0.0	2.7	-	-	-	-	-	0.0
113.0	55.0	-	0.0	3.2	5.6	12.3	-	-	-	-	-	-
113.0	60.0	-	0.0	0.0	0.0	19.9	-	-	-	-	-	3.0
113.0	70.0	-	0.0	0.0	6.0	8.5	-	-	-	-	-	-
117.0	42.5	-	-	0.0	0.0	11.6	-	-	-	-	-	-
117.0	45.0	-	0.0	0.0	5.6	3.0	-	-	-	-	-	-
117.0	47.5	-	2.8	0.0	2.4	0.0	-	-	-	-	-	-
117.0	50.0	0.0	0.0	11.4	2.5	3.0	-	-	-	-	-	0.0
117.0	55.0	-	0.0	28.1	2.1	0.0	-	-	-	-	-	-
117.0	60.0	-	15.4	14.2	19.4	0.0	-	-	-	-	-	0.0
117.0	70.0	-	-	0.0	2.1	0.0	-	-	-	-	-	-
120.0	40.0	-	0.0	2.4	0.0	0.0	-	-	-	-	-	0.0
120.0	47.5	-	0.0	0.0	0.0	2.7	-	-	-	-	-	-
120.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	-	0.0	-	0.0
120.0	55.0	-	0.0	18.0	0.0	0.0	0.0	-	-	-	-	-
120.0	60.0	0.0	0.0	9.9	2.7	0.0	16.1	16.0	-	0.0	-	0.0
120.0	70.0	0.0	0.0	0.0	6.4	0.0	0.0	47.7	-	2.7	-	3.0
120.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	51.3	-	0.0	-	0.0
120.0	90.0	-	0.0	-	0.0	0.0	0.0	20.2	-	14.7	-	0.0
120.0	90.0	-	0.0	0.0	0.0	0.0	8.5	0.0	-	0.0	-	0.0
123.0	40.0	-	0.0	0.0	0.0	0.0	17.2	18.2	-	5.7	-	0.0
123.0	45.0	-	0.0	7.2	0.0	6.3	6.4	16.7	-	19.4	-	0.0
123.0	50.0	0.0	0.0	0.0	0.0	6.1	-	-	-	6.1	-	0.0
123.0	55.0	-	2.7	0.0	0.0	0.0	-	-	-	-	-	-
127.0	42.5	-	0.0	0.0	0.0	0.0	0.0	2.8	-	0.0	-	0.0
127.0	50.0	0.0	0.0	0.0	0.0	2.3	0.0	-	-	0.0	-	8.1
127.0	55.0	-	0.0	0.0	0.0	5.3	-	-	-	0.0	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	-	0.0	-	0.0
130.0	40.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	-	0.0	-	0.0
130.0	45.0	-	0.0	0.0	0.0	3.1	2.7	0.0	-	0.0	-	-
130.0	50.0	0.0	0.0	0.0	3.0	2.9	0.0	0.0	-	3.1	-	0.0
130.0	55.0	-	4.0	0.0	3.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	60.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	-	3.8	-	-
130.0	110.0	15.4	-	-	-	-	-	-	-	-	-	-

TABLE 4. (cont.)

Cyclothone spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0 35.0	-	0.0	0.0	3.0	0.0	0.0	0.0	0.0	-	-	-	-
133.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	-	-	-	-
137.0 35.0	-	-	5.5	0.0	0.0	0.0	-	-	-	-	-	-
137.0 50.0	2.8	-	0.0	0.0	0.0	0.0	-	-	-	-	-	-
137.0 140.0	21.3	-	-	-	-	-	-	-	-	-	-	-
140.0 110.0	9.5	-	-	-	-	-	-	-	-	-	-	0.0
143.0 35.0	2.9	-	-	-	-	-	-	-	-	-	-	-
147.0 90.0	6.4	-	-	-	-	-	-	-	-	-	-	-

Diplophos taenia

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
147.0 90.0	3.2	-	-	-	-	-	-	-	-	-	-	-
150.0 60.0	11.7	-	-	-	-	-	-	-	-	-	-	-
157.0 10.0	-	-	-	-	-	-	-	-	-	-	-	2.1
157.0 30.0	-	-	-	-	-	-	-	-	-	-	-	2.7

Ichthyococcus spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0 60.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	-	0.0	-	0.0
100.0 70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	-	0.0	-	0.0
103.0 55.0	-	-	0.0	3.9	0.0	3.0	-	-	-	-	-	-
107.0 45.0	-	0.0	2.4	0.0	0.0	0.0	-	-	-	-	-	-
107.0 55.0	-	-	0.0	0.0	0.0	3.1	-	-	-	-	-	-
110.0 45.0	-	0.0	3.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	-
110.0 50.0	0.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0	-	0.0	-	0.0
110.0 70.0	0.0	-	0.0	2.4	0.0	0.0	-	-	-	-	-	-
110.0 80.0	0.0	-	2.3	0.0	0.0	0.0	-	-	-	-	-	-
113.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	-	0.0	-	0.0
113.0 47.5	-	-	0.0	0.0	0.0	5.1	-	-	-	-	-	-
113.0 55.0	-	-	0.0	3.2	0.0	0.0	-	-	-	-	-	-
113.0 60.0	-	0.0	0.0	0.0	3.0	2.8	-	-	-	-	-	0.0
120.0 37.5	-	0.0	2.0	0.0	0.0	0.0	-	-	-	-	-	-
120.0 70.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	-	0.0	-	0.0
120.0 80.0	0.0	0.0	0.0	-	3.5	0.0	0.0	0.0	-	3.3	-	0.0
120.0 90.0	-	-	0.0	-	0.0	0.0	0.0	2.9	-	2.9	-	0.0
123.0 45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	3.0	-	0.0	-	0.0
127.0 60.0	0.0	-	0.0	0.0	0.0	2.7	0.0	0.0	-	-	-	0.0
130.0 50.0	0.0	0.0	0.0	0.0	0.0	2.9	-	0.0	-	0.0	-	-
130.0 55.0	-	0.0	2.0	0.0	0.0	0.0	-	-	-	0.0	-	-
137.0 50.0	0.0	-	0.0	5.8	0.0	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

Vinciguerria lucetia

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0	50.0	6.3	0.0	0.0	-	0.0	0.0	-	0.0	0.0	-	-
83.0	40.0	0.0	0.0	0.7	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	90.0	-	-	0.0	0.0	16.2	-	-	-	-	-	-
90.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	11.5
93.0	90.0	-	-	0.0	2.3	-	-	-	-	-	-	-
97.0	45.0	-	-	0.0	13.2	0.0	0.0	-	0.0	0.0	-	-
97.0	50.0	0.0	0.0	0.0	0.0	5.8	3.5	-	0.0	0.0	-	0.0
97.0	55.0	-	-	0.0	0.0	5.4	-	-	0.0	0.0	-	-
97.0	60.0	0.0	0.0	0.0	2.0	0.0	-	-	-	3.8	-	-
97.0	80.0	-	-	3.1	0.0	0.0	-	-	-	-	-	-
97.0	90.0	-	-	5.6	5.5	0.0	-	-	-	-	-	-
100.0	29.0	3.3	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.9	0.0	-	0.0
100.0	35.0	-	0.0	0.0	0.0	0.0	0.0	-	3.2	0.0	-	-
100.0	45.0	-	0.0	0.0	0.0	0.0	0.0	-	44.5	3.2	-	-
100.0	50.0	0.0	0.0	0.0	15.9	0.0	2.9	-	2.7	0.0	-	-
100.0	55.0	-	0.0	0.0	3.7	8.3	-	-	-	0.0	-	-
100.0	60.0	0.0	0.0	0.0	0.0	74.4	2.9	130.9	-	3.0	-	0.0
100.0	70.0	0.0	22.5	0.0	3.5	0.0	0.0	196.7	-	14.5	-	25.9
100.0	80.0	0.0	0.0	0.0	0.0	0.0	20.1	-	-	109.4	-	0.0
100.0	90.0	0.0	9.3	29.1	20.2	0.0	-	-	-	64.9	-	0.0
100.0	100.0	-	-	5.9	27.0	-	-	-	-	-	-	-
103.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	6.2
103.0	45.0	0.0	0.0	2.9	0.0	3.0	-	-	-	-	-	-
103.0	50.0	0.0	0.0	3.0	9.4	28.3	-	-	-	-	-	-
103.0	55.0	-	0.0	0.0	2.9	187.2	-	-	-	-	-	-
103.0	60.0	0.0	0.0	0.0	2.8	42.6	-	-	-	-	-	-
103.0	70.0	-	-	6.0	10.7	32.0	-	-	-	-	-	-
103.0	80.0	-	-	6.5	27.4	13.9	-	-	-	-	-	-
103.0	90.0	-	-	-	15.9	-	-	-	-	-	-	-
107.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	0.0	-	0.0
107.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	11.9	-	0.0
107.0	40.0	0.0	0.0	3.7	0.0	0.0	0.0	25.0	-	8.5	-	13.6
107.0	45.0	0.0	0.0	6.5	0.0	0.0	-	-	-	-	-	-
107.0	50.0	0.0	0.0	0.0	16.6	5.7	-	-	-	-	-	-
107.0	55.0	-	0.0	0.0	0.0	21.4	-	-	-	-	-	-
107.0	60.0	0.0	0.0	0.0	0.0	40.8	-	-	-	-	-	-
107.0	70.0	-	0.0	0.0	59.3	0.0	-	-	-	-	-	-
107.0	80.0	-	-	0.0	77.0	-	-	-	-	-	-	-
110.0	33.0	0.0	0.0	0.0	0.0	0.0	3.7	63.6	-	3.6	-	0.0
110.0	35.0	0.0	0.0	0.0	0.0	0.0	26.3	56.3	-	0.0	-	0.0
110.0	40.0	0.0	0.0	0.0	0.0	3.0	43.5	15.9	-	10.6	-	3.2
110.0	45.0	-	9.0	0.0	0.0	21.3	178.6	0.0	-	0.0	-	9.4
110.0	50.0	0.0	0.0	0.0	62.9	45.5	10.5	49.6	-	0.0	-	-
110.0	55.0	-	0.0	0.0	107.8	12.8	-	-	-	8.1	-	-
110.0	60.0	0.0	0.0	0.0	112.0	8.2	0.0	147.5	-	53.3	-	0.0

TABLE 4. (cont.)

Vinciguerria lucetia (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	70.0	0.0	19.1	122.9	15.2	21.2	-	-	-	-	-	-
110.0	80.0	0.0	25.7	25.5	3.5	8.5	-	-	-	-	-	-
110.0	90.0	6.3	-	2.8	8.4	-	-	-	-	-	-	-
110.0	100.0	23.4	-	-	-	-	-	-	-	-	-	-
113.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	-	5.2	-	0.0
113.0	35.0	0.0	0.0	0.0	0.0	0.0	14.1	74.4	-	2.6	-	0.0
113.0	37.5	-	5.1	0.0	0.0	0.0	-	-	-	-	-	-
113.0	40.0	0.0	0.0	0.0	9.5	5.2	24.2	81.8	-	0.0	-	0.0
113.0	42.5	-	0.0	0.0	2.8	22.5	-	-	-	-	-	-
113.0	45.0	3.6	5.7	0.0	50.0	15.4	-	-	-	-	-	-
113.0	47.5	-	22.4	14.6	48.0	30.8	-	-	-	-	-	-
113.0	50.0	6.5	7.8	13.7	300.0	0.0	-	-	-	-	-	10.3
113.0	55.0	-	0.0	259.9	266.9	70.8	-	-	-	-	-	5.9
113.0	60.0	-	0.0	51.9	50.3	139.2	-	-	-	-	-	-
113.0	70.0	-	-	3.6	6.0	76.1	-	-	-	-	-	-
117.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	-	1.8	-	0.0
117.0	32.5	-	0.0	0.0	0.0	14.6	-	-	-	-	-	-
117.0	35.0	0.0	0.0	0.0	0.0	11.2	29.0	20.9	-	3.0	-	0.0
117.0	37.5	-	0.0	0.0	0.0	8.2	-	-	-	-	-	-
117.0	40.0	0.0	0.0	0.0	0.0	2.6	0.0	40.5	-	0.0	-	0.0
117.0	42.5	-	0.0	0.0	0.0	5.8	-	-	-	-	-	-
117.0	45.0	-	0.0	0.0	0.0	44.7	-	-	-	-	-	-
117.0	47.5	-	0.0	0.0	0.0	29.9	-	-	-	-	-	0.0
117.0	50.0	0.0	0.0	8.4	0.0	9.1	-	-	-	-	-	0.0
117.0	55.0	0.0	0.0	9.3	119.7	0.0	-	-	-	-	-	3.1
117.0	60.0	-	6.6	0.0	119.1	0.0	-	-	-	-	-	-
117.0	70.0	-	-	30.3	4.2	6.8	-	-	-	-	-	-
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	-	2.6	-	0.0
120.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	-	1.0	-	0.0
120.0	40.0	-	0.0	0.0	0.0	0.0	-	-	-	-	-	0.0
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	28.8	-	0.0
120.0	47.5	-	0.0	0.0	0.0	39.9	-	-	-	-	-	-
120.0	50.0	0.0	0.0	0.0	0.0	93.1	6.9	153.4	-	3.9	-	0.0
120.0	55.0	-	2.5	3.0	0.0	8.6	-	-	-	-	-	-
120.0	60.0	0.0	0.0	16.5	35.6	5.4	86.7	290.3	-	0.0	-	0.0
120.0	70.0	0.0	0.0	118.8	133.6	7.3	3.0	461.9	-	24.0	-	64.9
120.0	80.0	10.2	5.7	-	0.0	3.2	67.2	390.4	-	109.6	-	138.0
120.0	90.0	-	0.0	-	66.7	15.3	8.9	697.0	-	272.5	-	5.6
120.0	120.0	22.5	-	-	-	19.4	-	-	-	-	-	-
123.0	37.0	7.0	0.0	0.0	0.0	0.0	0.0	2.7	-	9.4	-	0.0
123.0	40.0	15.6	0.0	14.7	0.0	0.0	62.5	0.0	-	19.5	-	4.8
123.0	42.5	-	13.7	0.0	0.0	15.7	-	-	-	-	-	-
123.0	45.0	-	2.6	0.0	0.0	366.2	354.6	315.1	-	151.6	-	0.0
123.0	47.5	-	72.8	0.0	0.0	46.6	-	-	-	-	-	-
123.0	50.0	2.7	24.0	0.0	0.0	72.4	112.0	450.9	-	132.8	-	0.0
123.0	55.0	-	67.2	0.0	0.0	21.4	-	-	-	30.3	-	0.0

TABLE 4. (cont.)

Vinciguerria lucetia (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0	60.0	54.1	18.5	53.4	0.0	11.5	-	-	-	-	-	-
127.0	34.0	3.0	6.0	0.0	0.0	0.0	4.4	8.6	-	-	-	7.0
127.0	37.0	-	31.2	0.0	0.0	0.0	-	-	-	-	-	-
127.0	40.0	36.5	58.5	0.0	0.0	-	0.0	17.0	-	37.2	-	5.9
127.0	42.5	-	53.6	0.0	6.0	0.0	-	-	-	-	-	-
127.0	45.0	-	20.2	0.0	15.7	296.9	0.0	85.6	-	0.0	-	11.0
127.0	47.5	36.7	20.7	0.0	49.0	129.1	-	-	-	-	-	-
127.0	50.0	2.4	12.4	2.8	41.3	71.6	87.0	91.7	-	15.8	-	2.8
127.0	55.0	-	49.8	10.6	128.3	61.7	-	-	-	0.0	-	19.0
127.0	60.0	-	2.7	6.8	201.3	174.9	-	-	-	-	-	-
127.0	60.0	5.6	0.0	0.0	0.0	0.0	0.0	3.0	-	0.0	-	0.0
130.0	30.0	0.0	20.3	0.0	3.3	0.0	18.6	102.6	-	0.0	-	17.4
130.0	35.0	11.1	15.8	0.0	10.6	5.6	133.9	0.0	-	0.0	-	0.0
130.0	40.0	17.0	6.1	0.0	9.3	222.5	131.3	65.0	-	108.4	-	-
130.0	45.0	-	2.5	0.0	29.9	71.5	12.3	353.8	-	187.9	-	3.0
130.0	50.0	2.7	22.8	0.0	26.7	60.1	-	-	-	134.8	-	-
130.0	55.0	-	66.3	14.0	13.7	2.7	13.0	37.6	-	56.7	-	4.9
130.0	60.0	63.4	122.6	59.5	-	-	-	-	-	-	-	-
130.0	110.0	98.6	-	-	0.0	0.0	0.0	44.4	-	0.0	-	0.0
133.0	25.0	0.0	0.0	5.6	0.0	0.0	0.0	32.0	-	9.3	-	2.8
133.0	30.0	26.9	2.3	2.7	0.0	0.0	0.0	29.7	-	-	-	-
133.0	35.0	-	35.8	3.0	0.0	0.0	0.0	-	-	-	-	-
133.0	40.0	27.6	5.4	51.2	0.0	5.4	45.9	8.6	-	-	-	-
133.0	45.0	-	20.7	83.4	0.0	85.8	-	-	-	-	-	-
133.0	50.0	26.2	43.0	70.1	0.0	23.9	-	-	-	-	-	-
133.0	60.0	-	-	91.0	13.0	-	-	-	-	-	-	-
137.0	23.0	14.2	0.0	0.0	0.0	0.0	0.0	5.6	-	2.0	-	0.0
137.0	30.0	124.7	38.8	13.9	0.0	0.0	0.0	8.2	-	52.7	-	19.1
137.0	35.0	-	27.4	17.7	0.0	32.9	-	-	-	-	-	-
137.0	40.0	37.1	0.0	0.0	0.0	3.1	-	-	-	-	-	-
137.0	45.0	-	20.5	46.6	9.6	2.9	-	-	-	-	-	-
137.0	50.0	19.4	47.4	142.1	0.0	39.3	-	-	-	-	-	-
137.0	60.0	-	-	81.3	19.4	-	-	-	-	-	-	-
137.0	140.0	161.1	-	-	-	-	-	-	-	-	-	-
140.0	30.0	0.0	-	-	-	-	-	-	-	-	-	4.3
140.0	35.0	10.4	-	-	-	-	-	-	-	-	-	10.8
140.0	40.0	11.1	-	-	-	-	-	-	-	-	-	0.0
140.0	50.0	9.2	-	-	-	-	-	-	-	-	-	-
140.0	110.0	47.4	-	-	-	-	-	-	-	-	-	-
143.0	26.0	5.4	-	-	-	-	-	-	-	-	-	11.5
143.0	30.0	12.8	-	-	-	-	-	-	-	-	-	0.0
143.0	35.0	111.0	-	-	-	-	-	-	-	-	-	2.6
147.0	20.0	2.8	-	-	-	-	-	-	-	-	-	22.8
147.0	25.0	61.6	-	-	-	-	-	-	-	-	-	58.8
147.0	30.0	296.4	-	-	-	-	-	-	-	-	-	2.7
147.0	90.0	171.7	-	-	-	-	-	-	-	-	-	-
150.0	19.0	5.7	-	-	-	-	-	-	-	-	-	16.3

TABLE 4. (cont.)

Vinciguerrria lucetia (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
150.0	25.0	-	-	-	-	-	-	-	-	-	-	40.1
150.0	30.0	-	-	-	-	-	-	-	-	-	-	2.6
150.0	40.0	-	-	-	-	-	-	-	-	-	-	-
150.0	50.0	-	-	-	-	-	-	-	-	-	-	-
150.0	60.0	-	-	-	-	-	-	-	-	-	-	-
153.0	16.0	-	-	-	-	-	-	-	-	-	-	8.7
153.0	20.0	-	-	-	-	-	-	-	-	-	-	8.4
153.0	30.0	-	-	-	-	-	-	-	-	-	-	16.9
157.0	10.0	-	-	-	-	-	-	-	-	-	-	8.4
157.0	20.0	-	-	-	-	-	-	-	-	-	-	70.8
157.0	30.0	-	-	-	-	-	-	-	-	-	-	59.8

Sternoptychidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	48.0	2.5	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	3.1	-	0.0
93.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	3.0	-	0.0
93.0	35.0	-	-	0.0	0.0	0.0	0.0	-	2.7	-	-	3.3
93.0	50.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-
97.0	55.0	-	-	0.0	0.0	2.7	-	-	0.0	0.0	-	-
100.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	3.0
100.0	45.0	-	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-
100.0	80.0	0.0	0.0	0.0	3.3	0.0	0.0	-	3.0	9.1	-	-
100.0	90.0	0.0	0.0	2.9	16.9	0.0	-	-	-	3.0	-	0.0
100.0	100.0	-	-	0.0	3.4	-	-	-	-	-	-	-
103.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	-	0.0	-	0.0
103.0	50.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-
103.0	60.0	0.0	0.0	0.0	11.0	0.0	-	-	-	-	-	-
103.0	70.0	0.0	0.0	0.0	0.0	2.9	-	-	-	-	-	-
103.0	80.0	-	-	3.2	3.4	0.0	-	-	-	-	-	-
107.0	32.0	0.0	0.0	0.0	0.0	0.0	13.8	0.0	-	0.0	-	0.0
107.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	-	0.0	-	0.0
107.0	50.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-
107.0	70.0	-	-	0.0	3.5	0.0	-	-	-	-	-	-
110.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	-	3.5	-	0.0
110.0	55.0	-	0.0	0.0	0.0	2.5	-	-	-	0.0	-	-
113.0	35.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	-	0.0	-	0.0
113.0	50.0	0.0	0.0	0.0	2.8	0.0	-	-	-	-	-	0.0
117.0	50.0	0.0	0.0	2.8	0.0	0.0	-	-	-	-	-	0.0
117.0	70.0	-	-	3.0	0.0	0.0	-	-	-	-	-	-
120.0	42.5	0.0	0.0	0.0	0.0	2.5	-	-	-	-	-	-
120.0	55.0	-	0.0	0.0	3.0	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

Sternoptychidae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	-	0.0	-	0.0
120.0 70.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0 80.0	0.0	0.0	0.0	-	0.0	0.0	3.2	0.0	-	6.6	-	0.0
120.0 90.0	-	-	0.0	-	3.5	0.0	0.0	0.0	-	5.9	-	0.0
123.0 47.5	-	-	0.0	0.0	0.0	2.9	-	-	-	-	-	-
123.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	-	3.2	-	0.0
127.0 60.0	0.0	-	0.0	0.0	3.3	0.0	-	-	-	-	-	-
130.0 55.0	-	0.0	0.0	0.0	0.0	0.0	3.4	0.0	-	6.7	-	-
133.0 35.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
137.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.9	-	0.0
137.0 40.0	0.0	-	0.0	3.5	0.0	0.0	-	-	-	-	-	-

Chauliodus macouni

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 60.0	-	-	-	2.2	0.0	0.0	0.0	0.0	-	-	-	-
60.0 80.0	-	-	-	2.5	0.0	0.0	0.0	-	0.0	-	-	-
60.0 90.0	-	-	-	4.5	0.0	0.0	5.3	-	0.0	-	-	-
60.0 100.0	-	-	-	-	-	6.2	0.0	-	0.0	-	-	-
63.0 55.0	-	-	-	0.0	0.0	9.2	0.0	0.0	-	-	-	-
70.0 52.0	-	-	-	-	-	11.2	0.0	-	0.0	-	-	-
70.0 55.0	-	-	-	1.9	0.0	0.0	0.0	-	0.0	-	-	-
70.0 70.0	-	-	-	0.0	0.0	3.1	0.0	-	0.0	-	-	-
70.0 90.0	-	-	-	0.0	5.5	0.0	-	-	0.0	-	-	-
73.0 60.0	-	-	-	0.0	0.0	3.0	-	-	0.0	-	-	-
77.0 55.0	-	2.8	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-
80.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	3.3	-	0.0
80.0 80.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	-	0.0	0.0	-	0.0
80.0 90.0	2.7	-	0.0	0.0	0.0	0.0	2.6	-	0.0	0.0	-	0.0
80.0 100.0	0.0	-	-	-	-	0.0	-	-	3.0	-	-	-
83.0 60.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0 90.0	-	-	-	4.5	0.0	0.0	-	-	-	-	-	-
85.0 60.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	-	3.2	0.0	-	0.0
87.0 55.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	-	0.0	0.0	-	0.0
87.0 70.0	-	-	-	7.3	0.0	-	-	-	-	-	-	-
90.0 70.0	0.0	0.0	0.0	0.0	0.0	12.5	0.0	-	0.0	0.0	-	0.0
90.0 80.0	0.0	0.0	-	0.0	3.5	3.4	-	-	-	-	-	-
90.0 90.0	0.0	-	-	0.0	2.7	-	-	-	-	-	-	-
93.0 35.0	-	-	-	0.0	0.0	3.0	0.0	-	0.0	-	-	-
93.0 90.0	-	-	-	3.2	0.0	-	-	-	-	-	-	-
97.0 32.0	-	-	-	-	0.0	2.6	0.0	-	0.0	0.0	-	0.0
97.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	-	0.0	0.0	-	0.0
97.0 45.0	-	-	-	0.0	2.6	0.0	0.0	-	0.0	0.0	-	0.0
97.0 50.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0	-	2.5	-	-	-
97.0 60.0	0.0	0.0	0.0	0.0	0.0	2.6	-	-	-	-	-	-

TABLE 4. (cont.)

Chauliodus macouni (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0 40.0	2.4	0.0	2.4	0.0	0.0	3.1	0.0	-	0.0	0.0	-	0.0
100.0 45.0	-	-	0.0	0.0	0.0	0.0	0.0	-	3.0	0.0	-	-
100.0 50.0	0.0	0.0	4.9	0.0	0.0	2.8	0.0	-	0.0	0.0	-	-
100.0 55.0	-	-	0.0	0.0	0.0	0.0	-	-	-	3.4	-	-
100.0 60.0	0.0	0.0	0.0	2.9	2.8	0.0	-	-	-	-	-	-
103.0 70.0	-	-	-	0.0	0.0	2.9	-	-	-	-	-	-
107.0 32.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0
107.0 55.0	-	-	0.0	0.0	2.9	0.0	-	-	-	-	-	-
107.0 60.0	0.0	0.0	2.4	0.0	3.3	2.4	-	-	-	-	-	-
113.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	-	0.0	-	0.0
113.0 37.5	-	-	0.0	3.3	0.0	0.0	-	-	-	-	-	-
117.0 40.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0 60.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0

Idiacanthus antrostomus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0 80.0	-	-	-	-	0.0	0.0	0.0	-	2.6	-	-	-
80.0 90.0	0.0	-	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	3.2
80.0 100.0	4.3	-	-	-	-	0.0	-	-	0.0	-	-	-
90.0 80.0	2.7	0.0	-	0.0	0.0	0.0	-	-	-	3.8	-	-
97.0 55.0	-	-	-	0.0	0.0	0.0	-	-	-	-	-	-
97.0 60.0	0.0	11.4	0.0	0.0	0.0	0.0	-	-	-	-	-	-
97.0 90.0	-	-	-	2.8	0.0	0.0	-	-	-	-	-	-
100.0 60.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	2.9	-	0.0	-	0.0
100.0 80.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	-	-	0.0	-	-
100.0 90.0	0.0	-	0.0	0.0	3.4	2.3	-	-	-	0.0	-	3.7
103.0 60.0	0.0	0.0	0.0	0.0	2.8	0.0	-	-	-	-	-	-
107.0 55.0	-	-	1.7	0.0	0.0	6.1	-	-	-	-	-	-
107.0 70.0	-	-	-	3.4	0.0	0.0	-	-	-	-	-	-
113.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	2.3
147.0 30.0	3.1	-	-	-	0.0	-	-	-	-	-	-	0.0

Aristostomias scintillans

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0 80.0	-	-	-	3.2	0.0	0.0	-	-	-	-	-	-
110.0 90.0	0.0	-	-	2.8	0.0	-	-	-	-	-	-	-

Bathophilus spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
157.0 20.0	-	-	-	-	-	-	-	-	-	-	-	2.8

TABLE 4. (cont.)

Tactostoma macropus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 80.0	-	-	-	0.0	0.0	0.0	5.9	-	2.8	-	-	-
60.0 90.0	-	-	-	0.0	0.0	0.0	2.7	-	2.6	-	-	-
60.0 100.0	-	-	-	-	-	0.0	2.3	-	16.8	-	-	-
70.0 70.0	-	-	-	0.0	0.0	0.0	4.4	-	0.0	-	-	-
70.0 80.0	-	-	-	-	0.0	0.0	5.3	-	0.0	-	-	-
80.0 80.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	-	0.0	0.0	-	0.0
93.0 90.0	-	-	-	0.0	2.3	-	-	-	-	-	-	-
100.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	-	0.0	-	0.0

Stomias atriventer

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0 80.0	-	-	-	-	0.0	0.0	2.7	-	0.0	-	-	-
70.0 90.0	-	-	-	0.0	0.0	30.2	-	-	0.0	-	-	-
80.0 80.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0 55.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	-	0.0	0.0	-	0.0
87.0 45.0	0.0	0.0	0.0	0.0	12.8	0.0	0.0	-	0.0	0.0	-	0.0
87.0 80.0	-	-	-	2.6	0.0	0.0	-	-	-	-	-	-
97.0 90.0	-	-	-	2.8	0.0	0.0	-	-	-	-	-	-
100.0 35.0	-	-	0.0	0.0	0.0	0.0	2.8	-	0.0	-	-	-
100.0 55.0	-	-	0.0	0.0	7.5	0.0	-	-	-	0.0	-	0.0
100.0 60.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	-	0.0	-	0.0
100.0 70.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
100.0 80.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
100.0 90.0	0.0	-	4.6	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
103.0 35.0	0.0	0.0	0.0	0.0	2.5	0.0	-	0.0	-	0.0	-	0.0
103.0 45.0	-	0.0	5.9	2.9	0.0	0.0	-	-	-	-	-	-
103.0 50.0	0.0	0.0	0.0	0.0	4.7	0.0	-	-	-	-	-	-
103.0 55.0	-	-	0.0	3.9	2.8	0.0	-	-	-	-	-	-
103.0 60.0	0.0	0.0	0.0	0.0	0.0	2.7	-	-	-	-	-	-
107.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.8	-	0.0
107.0 45.0	-	0.0	2.4	0.0	0.0	0.0	-	0.0	-	-	-	0.0
110.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	0.0	-	0.0
110.0 40.0	0.0	0.0	0.0	3.1	0.0	0.0	2.7	0.0	-	0.0	-	0.0
110.0 45.0	-	0.0	0.0	0.0	0.0	0.0	3.4	0.0	-	0.0	-	-
110.0 70.0	0.0	-	2.7	12.1	0.0	0.0	-	-	-	-	-	-
110.0 80.0	0.0	-	2.3	0.0	0.0	0.0	-	-	-	-	-	-
110.0 90.0	0.0	-	-	8.5	2.8	-	-	0.0	-	0.0	-	0.0
113.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	-	-	-	-
113.0 37.5	-	-	5.1	0.0	0.0	0.0	-	0.0	-	0.0	-	0.0
113.0 40.0	2.5	0.0	3.2	0.0	0.0	0.0	0.0	0.0	-	-	-	-
113.0 42.5	-	-	2.8	0.0	0.0	0.0	-	-	-	-	-	-
113.0 45.0	-	0.0	2.8	0.0	0.0	0.0	-	-	-	-	-	0.0
113.0 50.0	0.0	0.0	2.0	0.0	0.0	0.0	-	-	-	-	-	-
113.0 55.0	-	-	6.8	6.3	0.0	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

Stomias atriventer (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	60.0	5.7	0.0	0.0	0.0	0.0	-	-	-	-	-	0.0
117.0	26.0	-	0.0	0.0	0.0	0.0	0.0	0.0	-	2.6	-	0.0
117.0	35.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	-	5.9	-	0.0
117.0	40.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	-	0.0	-	0.0
117.0	42.5	-	0.0	0.0	0.0	2.9	-	-	-	-	-	-
117.0	45.0	-	0.0	0.0	0.0	6.0	-	-	-	-	-	-
117.0	47.5	-	0.0	0.0	2.4	0.0	-	-	-	-	-	0.0
117.0	50.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-
117.0	70.0	-	0.0	9.1	0.0	0.0	-	-	-	-	-	0.0
120.0	45.0	0.0	0.0	7.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	50.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	-	0.0	-	0.0
120.0	55.0	-	0.0	0.0	0.0	2.7	-	-	-	-	-	-
120.0	60.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	70.0	0.0	0.0	29.7	3.2	0.0	0.0	0.0	-	0.0	-	0.0
120.0	80.0	0.0	0.0	-	3.5	0.0	0.0	0.0	-	0.0	-	0.0
123.0	37.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	-	0.0	-	0.0
123.0	42.5	-	0.0	12.6	0.0	0.0	-	-	-	-	-	-
123.0	45.0	-	0.0	0.0	0.0	3.1	2.9	0.0	-	0.0	-	0.0
123.0	47.5	-	2.8	0.0	6.6	2.9	-	-	-	3.0	-	0.0
123.0	55.0	-	9.0	0.0	0.0	3.0	-	-	-	-	-	-
123.0	60.0	0.0	0.0	11.2	0.0	0.0	-	-	-	-	-	-
127.0	37.0	-	0.0	8.0	2.9	0.0	-	-	-	-	-	-
127.0	40.0	0.0	0.0	0.0	2.9	-	2.9	0.0	-	0.0	-	0.0
127.0	42.5	-	0.0	0.0	3.0	0.0	-	-	-	-	-	-
127.0	45.0	-	0.0	3.4	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0	50.0	3.4	0.0	2.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0	55.0	-	0.0	3.5	0.0	2.9	-	-	-	0.0	-	0.0
127.0	60.0	-	2.7	13.5	0.0	2.7	-	-	-	-	-	-
130.0	35.0	3.1	0.0	0.0	0.0	0.0	0.0	2.7	-	0.0	-	0.0
130.0	40.0	11.1	0.0	2.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	45.0	3.4	0.0	3.2	0.0	3.1	0.0	0.0	-	0.0	-	0.0
130.0	50.0	2.7	0.0	6.1	0.0	0.0	3.1	3.6	-	0.0	-	0.0
130.0	55.0	-	0.0	3.5	3.0	0.0	-	-	-	0.0	-	0.0
130.0	60.0	3.5	0.0	3.5	10.3	0.0	0.0	0.0	-	0.0	-	0.0
130.0	110.0	11.3	-	-	-	-	-	-	-	-	-	-
133.0	25.0	4.5	3.2	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	1.9	-	0.0
133.0	35.0	0.0	2.8	15.1	0.0	0.0	0.0	0.0	-	-	-	-
133.0	40.0	0.0	0.0	3.0	0.0	2.7	5.7	0.0	-	-	-	-
133.0	45.0	-	3.0	5.6	0.0	0.0	-	-	-	-	-	-
133.0	50.0	3.3	0.0	5.8	0.0	0.0	-	-	-	-	-	-
137.0	35.0	-	0.0	3.5	0.0	0.0	-	-	-	-	-	-
137.0	45.0	-	5.1	0.0	3.2	0.0	-	-	-	-	-	-
137.0	50.0	8.3	5.6	17.4	0.0	0.0	-	-	-	-	-	-
137.0	60.0	-	-	2.5	0.0	-	-	-	-	-	-	-
137.0	140.0	3.0	-	-	-	-	-	-	-	-	-	-

TABLE 4. (cont.)

Stomias atriventer (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
140.0 110.0	3.2	-	-	-	-	-	-	-	-	-	-	-
147.0 30.0	3.1	-	-	-	-	-	-	-	-	-	-	0.0
147.0 90.0	3.2	-	-	-	-	-	-	-	-	-	-	-
150.0 50.0	2.7	-	-	-	-	-	-	-	-	-	-	-

Paralepididae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0 70.0	-	-	-	-	-	5.7	-	-	-	-	-	-
60.0 100.0	-	-	-	-	-	3.1	0.0	-	0.0	-	-	-
70.0 70.0	-	-	-	0.0	2.1	0.0	0.0	-	0.0	-	-	-
70.0 80.0	-	-	-	-	8.2	0.0	0.0	-	2.6	-	-	-
70.0 90.0	-	-	-	0.0	8.2	3.4	-	-	-	-	-	-
77.0 50.0	2.2	0.0	0.0	0.0	-	0.0	0.0	-	0.0	0.0	-	-
77.0 55.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-
80.0 60.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0 70.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	5.2
80.0 80.0	2.2	3.0	0.0	0.0	0.0	3.0	7.7	-	0.0	0.0	-	0.0
80.0 90.0	0.0	-	0.0	0.0	2.5	0.0	15.6	-	0.0	0.0	-	3.2
80.0 100.0	0.0	-	-	-	-	5.5	-	-	3.0	-	-	-
83.0 55.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	2.9
85.0 55.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0 60.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0 55.0	11.2	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0 60.0	0.0	0.0	0.0	0.0	0.0	9.6	0.0	-	0.0	0.0	-	0.0
87.0 80.0	-	-	-	0.0	0.0	2.4	-	-	-	-	-	-
87.0 90.0	-	-	-	0.0	2.8	2.3	-	-	-	0.0	-	0.0
90.0 50.0	-	-	-	-	4.8	0.0	-	-	-	-	-	-
90.0 80.0	0.0	2.8	-	0.0	0.0	10.1	-	-	-	-	-	-
93.0 27.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
93.0 70.0	-	-	0.0	0.0	0.0	2.6	-	-	-	-	-	-
93.0 80.0	-	-	-	0.0	4.6	-	-	-	-	-	-	-
93.0 90.0	-	-	-	0.0	2.3	-	-	-	-	-	-	-
97.0 32.0	2.6	0.0	0.0	-	0.0	0.0	0.0	-	0.0	0.0	-	0.0
97.0 45.0	-	-	-	0.0	21.0	0.0	2.5	-	0.0	0.0	-	0.0
97.0 50.0	0.0	0.0	0.0	0.0	2.7	2.9	0.0	-	0.0	0.0	-	0.0
97.0 55.0	-	-	-	0.0	0.0	2.7	-	-	0.0	0.0	-	-
97.0 90.0	-	-	-	5.6	8.3	0.0	-	-	-	-	-	0.0
100.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	5.9	0.0	-	0.0
100.0 45.0	-	-	0.0	0.0	0.0	0.0	0.0	-	5.9	0.0	-	-
100.0 50.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	-	2.7	3.4	-	-
100.0 55.0	-	-	0.0	0.0	0.0	5.5	-	-	-	0.0	-	0.0
100.0 60.0	-	-	0.0	0.0	2.7	14.9	2.9	8.7	-	0.0	-	0.0
100.0 70.0	0.0	3.2	2.3	0.0	0.0	5.9	0.0	3.0	-	0.0	-	0.0

TABLE 4. (cont.)

Paralepididae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
160.0	80.0	0.0	5.2	0.0	0.0	0.0	2.9	-	-	0.0	-	-
100.0	90.0	0.0	-	5.8	3.3	0.0	-	-	-	3.0	-	0.0
100.0	100.0	-	2.3	0.0	0.0	4.7	-	-	-	-	-	-
103.0	35.0	2.4	0.0	0.0	3.4	-	0.0	0.0	-	0.0	-	0.0
103.0	45.0	0.0	0.0	8.8	0.0	0.0	-	-	-	-	-	-
103.0	50.0	0.0	0.0	3.0	7.1	0.0	-	-	-	-	-	-
103.0	55.0	0.0	0.0	0.0	2.9	3.0	-	-	-	-	-	-
103.0	60.0	3.9	0.0	0.0	11.0	13.3	-	-	-	-	-	-
103.0	70.0	-	-	3.0	5.4	2.9	-	-	-	-	-	-
103.0	80.0	-	-	3.2	3.4	0.0	-	-	-	-	-	-
107.0	32.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	-	0.0	-	0.0
107.0	35.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	-	0.0	-	0.0
107.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.8	-	0.0
107.0	45.0	-	0.0	3.3	0.0	0.0	-	-	-	-	-	-
107.0	50.0	-	0.0	0.0	10.0	5.7	-	-	-	-	-	-
107.0	55.0	-	0.0	0.0	0.0	12.2	-	-	-	-	-	-
107.0	60.0	0.0	0.0	0.0	6.7	4.8	-	-	-	-	-	-
110.0	40.0	0.0	0.0	6.3	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	45.0	-	0.0	0.0	3.5	0.0	0.0	0.0	-	0.0	-	0.0
110.0	50.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0	-	0.0	-	-
110.0	55.0	-	3.2	0.0	0.0	0.0	-	-	-	-	-	-
110.0	70.0	1.9	0.0	2.4	0.0	0.0	-	-	-	-	-	-
110.0	80.0	0.0	0.0	0.0	3.5	0.0	-	-	-	-	-	-
110.0	90.0	0.0	0.0	2.8	0.0	0.0	1.9	0.0	-	0.0	-	0.0
113.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	35.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	37.5	-	2.5	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	40.0	0.0	0.0	3.5	0.0	2.6	0.0	0.0	-	-	-	0.0
113.0	47.5	-	2.8	2.9	0.0	0.0	-	-	-	-	-	0.0
113.0	50.0	0.0	0.0	0.0	2.8	0.0	-	-	-	-	-	-
113.0	55.0	-	3.4	0.0	0.0	0.0	-	-	-	-	-	-
117.0	42.5	-	0.0	2.8	0.0	0.0	-	-	-	-	-	-
117.0	45.0	-	0.0	0.0	2.8	0.0	-	-	-	-	-	-
117.0	47.5	-	0.0	2.9	0.0	0.0	-	-	-	-	-	-
120.0	60.0	0.0	0.0	0.0	5.5	0.0	0.0	6.4	-	0.0	-	0.0
120.0	80.0	0.0	0.0	0.0	0.0	3.0	0.0	19.9	-	0.0	-	0.0
123.0	50.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0	55.0	-	0.0	3.5	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	45.0	-	2.5	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	0.0
147.0	30.0	3.1	-	-	-	-	-	-	-	-	-	2.1
150.0	50.0	2.7	-	-	-	-	-	-	-	-	-	2.8
157.0	10.0	-	-	-	-	-	-	-	-	-	-	-
157.0	20.0	-	-	-	-	-	-	-	-	-	-	-

TABLE 4. (cont.)

Scopelarchidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0	55.0	0.0	0.0	0.0	5.6	0.0	0.0	-	0.0	0.0	-	-
100.0	60.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	-	0.0	-	0.0
100.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	-	0.0	-	0.0
100.0	80.0	0.0	0.0	0.0	3.3	0.0	0.0	-	-	0.0	-	-
100.0	90.0	0.0	0.0	0.0	3.4	0.0	-	-	-	0.0	-	0.0
100.0	100.0	-	-	3.0	0.0	-	-	-	-	-	-	-
103.0	50.0	0.0	0.0	0.0	2.4	0.0	-	-	-	-	-	-
103.0	55.0	-	0.0	3.9	2.9	3.0	-	-	-	-	-	-
103.0	60.0	0.0	0.0	0.0	0.0	2.7	-	-	-	-	-	-
103.0	70.0	-	-	0.0	0.0	2.9	-	-	-	-	-	-
107.0	60.0	0.0	0.0	0.0	0.0	2.4	-	-	-	-	-	-
107.0	70.0	-	0.0	0.0	3.5	0.0	-	-	-	-	-	0.0
110.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.3	-	-
110.0	80.0	-	2.3	0.0	0.0	0.0	-	-	-	-	-	-
110.0	90.0	2.1	-	0.0	0.0	-	-	-	-	-	-	-
120.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.9	-	0.0
120.0	60.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	-	0.0	-	0.0
120.0	80.0	0.0	0.0	-	0.0	0.0	0.0	11.4	-	0.0	-	0.0
120.0	90.0	-	0.0	-	0.0	0.0	0.0	0.0	-	2.9	-	0.0
127.0	37.0	-	2.8	0.0	0.0	0.0	-	-	-	-	-	-
130.0	50.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	55.0	-	2.0	0.0	0.0	0.0	-	-	-	0.0	-	0.0
143.0	35.0	5.8	-	-	-	-	-	-	-	-	-	0.0
150.0	19.0	2.8	-	-	-	-	-	-	-	-	-	0.0
150.0	30.0	3.1	-	-	-	-	-	-	-	-	-	8.5
157.0	20.0	-	-	-	-	-	-	-	-	-	-	-

Myctophidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	80.0	-	-	0.0	0.0	10.3	0.0	-	0.0	-	-	-
67.0	65.0	-	-	-	-	0.0	4.6	0.0	-	-	-	-
70.0	60.0	-	-	0.0	0.0	4.8	0.0	-	0.0	-	-	-
70.0	80.0	-	-	-	0.0	0.0	0.0	-	5.1	-	-	-
80.0	60.0	0.0	5.7	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0	80.0	0.0	0.0	0.0	0.0	3.0	0.0	-	0.0	0.0	-	0.0
80.0	90.0	0.0	0.0	0.0	0.0	0.0	2.6	-	5.6	0.0	-	0.0
83.0	40.0	0.0	0.0	0.0	0.0	0.0	2.1	-	0.0	0.0	-	0.0
85.0	40.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0
87.0	60.0	0.0	0.0	5.8	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	70.0	-	-	0.0	3.0	-	-	-	-	-	-	-
87.0	90.0	-	-	0.0	0.0	2.3	-	-	-	-	-	-
90.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.7	0.0	-	0.0
90.0	70.0	0.0	0.0	0.0	0.0	6.3	0.0	-	0.0	-	-	-
90.0	80.0	0.0	-	0.0	0.0	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

Myctophidae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0 45.0	-	-	-	0.0	0.0	0.0	0.0	-	0.0	2.6	-	-
93.0 80.0	-	-	-	0.0	2.3	-	-	-	-	-	-	-
100.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.9	0.0	-	3.4
100.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	-	0.0	0.0	-	-
100.0 80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	6.1	-	-
100.0 90.0	0.0	-	0.0	0.0	10.1	0.0	-	-	-	0.0	-	0.0
103.0 40.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
103.0 50.0	0.0	0.0	0.0	0.0	0.0	3.1	-	-	-	-	-	-
103.0 60.0	0.0	0.0	0.0	2.9	0.0	0.0	-	-	-	-	-	-
107.0 55.0	-	-	0.0	0.0	0.0	3.1	-	-	-	-	-	-
107.0 70.0	-	-	-	0.0	7.0	0.0	-	-	-	-	-	-
110.0 55.0	-	-	0.0	0.0	0.0	0.0	-	-	-	2.7	-	-
110.0 70.0	0.0	-	0.0	0.0	0.0	3.0	-	-	-	-	-	-
110.0 80.0	2.7	-	0.0	0.0	0.0	0.0	-	-	-	-	-	-
113.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.6	-	0.0
113.0 35.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0 90.0	-	-	0.0	-	0.0	0.0	0.0	0.0	-	2.9	-	0.0
120.0 120.0	3.2	-	-	-	-	-	-	-	-	-	-	-
123.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	-	0.0	-	0.0
123.0 45.0	-	0.0	0.0	0.0	0.0	0.0	2.9	0.0	-	0.0	-	0.0
123.0 47.5	-	-	2.8	0.0	0.0	0.0	-	-	-	-	-	-
127.0 40.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0 42.5	-	-	2.7	0.0	0.0	0.0	-	-	-	-	-	-
127.0 60.0	0.0	-	0.0	0.0	3.3	0.0	-	-	-	-	-	-
130.0 45.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	-	0.0	-	-
130.0 50.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0 55.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	6.7	-	0.0
130.0 60.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	-	7.6	-	-
133.0 60.0	-	-	-	3.4	0.0	-	-	-	-	-	-	-
137.0 35.0	-	-	5.5	0.0	0.0	6.6	-	-	-	-	-	0.0
143.0 26.0	2.7	-	-	-	-	-	-	-	-	-	-	2.7
147.0 30.0	0.0	-	-	-	-	-	-	-	-	-	-	4.2
157.0 10.0	-	-	-	-	-	-	-	-	-	-	-	5.4
157.0 30.0	-	-	-	-	-	-	-	-	-	-	-	-

Ceratoscopelus townsendi

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 80.0	-	-	-	0.0	0.0	0.0	0.0	-	16.6	-	-	-
70.0 100.0	-	-	-	-	-	2.4	-	-	-	-	-	-
80.0 80.0	0.0	0.0	0.0	0.0	0.0	0.0	20.5	-	0.0	0.0	-	0.0
87.0 90.0	-	-	-	0.0	8.5	0.0	-	-	-	-	-	-
97.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	4.2	-	0.0
100.0 55.0	-	-	0.0	0.0	3.7	0.0	-	-	-	0.0	-	-
100.0 60.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	23.3	-	0.0	-	0.0

TABLE 4. (cont.)

Ceratoscopelus townsendi (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	70.0	0.0	0.0	0.0	0.0	0.0	3.1	3.0	-	0.0	-	0.0
100.0	80.0	0.0	0.0	0.0	3.3	0.0	5.7	-	-	18.2	-	-
100.0	90.0	0.0	0.0	8.7	16.9	0.0	-	-	-	35.4	-	0.0
100.0	100.0	-	-	0.0	3.4	-	-	-	-	-	-	0.0
103.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
103.0	55.0	-	0.0	0.0	0.0	48.3	-	-	-	-	-	-
103.0	60.0	0.0	0.0	0.0	0.0	2.7	-	-	-	-	-	-
103.0	70.0	-	-	0.0	0.0	5.8	-	-	-	-	-	-
103.0	80.0	-	-	0.0	0.0	2.8	-	-	-	-	-	-
107.0	55.0	-	0.0	0.0	0.0	3.1	-	-	-	-	-	-
107.0	60.0	0.0	0.0	0.0	0.0	4.8	-	-	-	-	-	-
107.0	80.0	-	-	0.0	4.1	-	-	-	-	-	-	-
110.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	1.8	-	0.0
110.0	80.0	0.0	0.0	0.0	0.0	2.8	-	-	-	-	-	-
113.0	55.0	-	0.0	0.0	0.0	9.2	-	-	-	-	-	-
117.0	60.0	-	0.0	0.0	0.0	0.0	-	-	-	-	-	0.0
120.0	60.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	-	0.0	-	0.0
120.0	80.0	0.0	0.0	-	0.0	0.0	0.0	2.8	-	0.0	-	0.0
120.0	90.0	-	0.0	-	0.0	0.0	0.0	2.9	-	5.9	-	0.0
123.0	45.0	-	0.0	0.0	0.0	0.0	11.4	0.0	-	0.0	-	0.0
123.0	50.0	0.0	0.0	0.0	0.0	0.0	9.6	10.0	-	6.5	-	0.0
127.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	-	0.0	-	0.0
130.0	110.0	12.3	-	-	-	-	-	-	-	-	-	-
137.0	40.0	3.1	0.0	0.0	0.0	0.0	-	-	-	-	-	-
137.0	140.0	15.2	-	-	-	-	-	-	-	-	-	-

Diaphus spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0	60.0	-	-	-	-	34.8	-	-	-	-	-	-
50.0	70.0	-	-	-	-	186.8	-	-	-	-	-	-
50.0	80.0	-	-	-	-	1459.5	-	-	-	-	-	-
50.0	90.0	-	-	-	-	123.2	-	-	-	-	-	-
50.0	100.0	-	-	-	-	91.0	-	-	-	-	-	-
53.0	52.0	-	-	-	-	125.6	-	-	-	-	-	-
53.0	55.0	-	-	-	-	15.5	-	-	-	-	-	-
53.0	65.0	-	-	-	-	183.6	-	-	-	-	-	-
57.0	65.0	-	-	-	-	9.0	-	-	-	-	-	-
60.0	60.0	-	-	0.0	0.0	47.4	0.0	0.0	-	-	-	-
60.0	70.0	-	-	0.0	0.0	301.8	41.3	12.3	-	-	-	-
60.0	80.0	-	-	0.0	0.0	20.6	38.5	-	16.6	-	-	-
60.0	90.0	-	-	0.0	0.0	580.2	13.3	-	2.6	-	-	-
60.0	100.0	-	-	-	-	163.2	14.0	-	0.0	-	-	-
63.0	55.0	-	-	0.0	0.0	9.2	10.7	0.0	-	-	-	-
67.0	55.0	-	-	0.0	0.0	0.0	9.7	0.0	-	-	-	-

TABLE 4. (cont.)

Diaphus spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
67.0	65.0	-	-	-	-	75.4	41.0	5.1	-	-	-	-
70.0	52.0	-	-	-	-	44.8	0.0	-	0.0	-	-	-
70.0	55.0	-	-	0.0	0.0	45.3	11.5	-	0.0	-	-	-
70.0	60.0	-	-	0.0	0.0	4.8	0.0	-	0.0	-	-	-
70.0	70.0	-	-	0.0	0.0	199.0	42.0	-	0.0	-	-	-
70.0	80.0	-	-	-	0.0	37.9	10.6	-	2.6	-	-	-
70.0	90.0	-	-	0.0	0.0	40.3	-	-	-	-	-	-
70.0	100.0	-	-	-	-	2.4	-	-	-	-	-	-
73.0	60.0	-	-	0.0	5.7	112.5	-	-	0.0	-	-	-
77.0	55.0	0.0	0.0	0.0	5.6	0.0	0.0	-	0.0	-	-	-
77.0	65.0	-	0.0	0.0	0.0	-	21.0	-	0.0	-	-	-
80.0	55.0	0.0	0.0	0.0	0.0	11.2	0.0	-	0.0	-	-	0.0
80.0	80.0	0.0	0.0	0.0	0.0	12.1	48.6	-	0.0	-	-	0.0
80.0	90.0	0.0	0.0	0.0	2.5	3.0	18.2	-	0.0	-	-	0.0
80.0	100.0	0.0	-	-	-	22.0	-	-	6.0	-	-	-
83.0	60.0	0.0	0.0	0.0	0.0	13.7	0.0	-	0.0	-	-	0.0
83.0	80.0	-	-	0.0	0.0	49.0	-	-	-	-	-	-
83.0	90.0	-	-	0.0	2.8	33.7	28.6	-	-	-	-	0.0
85.0	60.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	-	-
87.0	80.0	-	-	0.0	0.0	9.4	-	-	-	-	-	-
87.0	90.0	-	-	0.0	0.0	7.0	-	-	-	-	-	-
90.0	55.0	0.0	0.0	0.0	0.0	3.3	0.0	-	0.0	-	-	0.0
90.0	70.0	0.0	0.0	0.0	0.0	0.0	11.7	-	0.0	-	-	-
90.0	80.0	0.0	-	0.0	10.5	73.9	-	-	-	-	-	-
93.0	70.0	-	0.0	0.0	0.0	5.3	-	-	-	-	-	-
97.0	40.0	0.0	0.0	0.0	0.0	0.0	2.6	-	0.0	-	-	0.0
97.0	45.0	-	-	0.0	18.4	0.0	0.0	-	0.0	-	-	0.0
97.0	50.0	0.0	0.0	0.0	8.7	8.7	0.0	-	2.5	-	-	-
97.0	55.0	-	-	0.0	0.0	29.9	-	-	-	-	-	-
97.0	60.0	0.0	0.0	0.0	0.0	7.7	-	-	-	-	-	-
97.0	90.0	-	0.0	0.0	24.9	12.9	-	-	-	-	-	-
100.0	40.0	0.0	0.0	0.0	0.0	0.0	2.8	-	0.0	-	-	0.0
100.0	45.0	-	0.0	0.0	0.0	0.0	10.1	-	3.0	-	-	-
100.0	50.0	0.0	0.0	0.0	9.5	2.8	2.9	-	0.0	-	-	-
100.0	55.0	-	0.0	0.0	0.0	5.5	-	-	5.4	-	-	-
100.0	70.0	0.0	0.0	0.0	0.0	20.5	6.3	0.0	-	-	-	0.0
100.0	80.0	0.0	0.0	0.0	84.8	6.1	0.0	-	-	-	-	-
100.0	90.0	0.0	0.0	0.0	37.1	2.3	0.0	-	-	-	-	0.0
103.0	40.0	0.0	0.0	0.0	0.0	2.9	-	11.9	3.0	-	-	0.0
103.0	45.0	-	0.0	0.0	0.0	5.9	0.0	-	-	-	-	-
103.0	50.0	0.0	0.0	0.0	7.1	0.0	-	-	-	-	-	-
103.0	55.0	-	0.0	0.0	5.8	0.0	-	-	-	-	-	-
103.0	60.0	0.0	0.0	0.0	35.8	18.6	-	-	-	-	-	-
103.0	70.0	-	-	0.0	34.8	2.9	-	-	-	-	-	-
103.0	80.0	-	-	0.0	17.1	2.8	-	-	-	-	-	-
107.0	32.0	0.0	0.0	0.0	0.0	8.7	0.0	0.0	-	0.0	-	0.0

TABLE 4. (cont.)

Diaphus spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0 40.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	-	0.0	-	0.0
107.0 50.0	-	0.0	0.0	0.0	0.0	2.9	-	-	-	-	-	-
107.0 55.0	-	-	0.0	0.0	0.0	12.2	-	-	-	-	-	-
107.0 60.0	0.0	0.0	0.0	0.0	6.7	0.0	-	-	-	-	-	-
110.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	-	0.0	-	0.0
110.0 45.0	-	0.0	0.0	0.0	0.0	30.4	0.0	0.0	-	0.0	-	-
110.0 60.0	0.0	0.0	0.0	0.0	0.0	2.7	3.1	0.0	-	0.0	-	0.0
113.0 37.5	-	-	0.0	0.0	2.7	0.0	-	-	-	-	-	-
157.0 20.0	-	-	-	-	-	-	-	-	-	-	-	5.7
157.0 30.0	-	-	-	-	-	-	-	-	-	-	-	5.4

Lampadena urophaos

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0 60.0	-	-	-	-	-	2.9	-	-	-	-	-	-
85.0 60.0	0.0	0.0	0.0	0.0	17.3	0.0	0.0	-	0.0	0.0	-	0.0
110.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	-	0.0	-	0.0
120.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	-	0.0	-	0.0
120.0 90.0	-	-	0.0	-	0.0	0.0	0.0	2.9	-	0.0	-	0.0
123.0 45.0	-	0.0	0.0	0.0	0.0	0.0	11.4	0.0	-	0.0	-	0.0
123.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	-	0.0	-	0.0
127.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	-	0.0	-	0.0
130.0 35.0	0.0	0.0	10.2	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0 50.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0

Lampanyctus spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0 100.0	-	-	-	-	-	4.9	-	-	-	-	-	-
77.0 50.0	2.2	0.0	0.0	0.0	-	0.0	0.0	-	0.0	0.0	-	-
80.0 51.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0 60.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0 70.0	3.5	6.9	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0
80.0 80.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0 110.0	2.8	-	-	-	-	-	-	-	-	-	-	-
83.0 40.0	0.0	0.0	0.0	0.0	6.1	0.0	0.0	-	0.0	0.0	-	0.0
83.0 55.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0 45.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0 50.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0 60.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0 50.0	0.0	0.0	0.0	0.0	19.4	0.0	0.0	-	0.0	0.0	-	0.0
87.0 55.0	0.0	0.0	0.0	0.0	13.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0 60.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0 28.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	-	0.0	0.0	-	0.0

TABLE 4. (cont.)

Lampanyctus spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	41.0	-	0.0	-	6.5	0.0	-	-	-	-	-	-
90.0	45.0	-	0.0	1.5	5.2	0.0	0.0	-	0.0	0.0	-	0.0
90.0	50.0	-	-	-	14.5	0.0	0.0	-	0.0	0.0	-	0.0
90.0	55.0	-	0.0	2.8	2.6	0.0	0.0	-	0.0	0.0	-	-
90.0	60.0	1.6	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	100.0	1.7	-	-	-	-	-	-	-	-	-	-
90.0	110.0	2.8	-	-	-	-	-	-	-	-	-	-
93.0	30.0	2.3	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
93.0	45.0	-	-	0.0	2.8	0.0	0.0	-	0.0	0.0	-	-
93.0	50.0	0.0	-	0.0	5.1	0.0	0.0	-	0.0	0.0	-	0.0
97.0	32.0	0.0	0.0	-	0.0	0.0	0.0	-	2.7	0.0	-	0.0
97.0	50.0	0.0	2.9	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
97.0	60.0	17.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-
97.0	70.0	-	20.6	0.0	0.0	0.0	-	-	-	-	-	-
97.0	90.0	-	-	14.1	0.0	0.0	-	-	-	-	-	-
100.0	30.0	0.0	2.1	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	40.0	0.0	4.8	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	50.0	0.0	3.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-
100.0	55.0	-	-	0.0	0.0	5.5	-	-	-	-	-	-
100.0	70.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
100.0	80.0	0.0	17.9	0.0	0.0	3.0	0.0	0.0	-	0.0	-	-
100.0	90.0	7.5	2.3	0.0	0.0	0.0	-	-	-	0.0	-	0.0
100.0	100.0	-	-	3.0	0.0	-	-	-	-	-	-	-
103.0	30.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
103.0	35.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
103.0	40.0	4.8	2.6	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
103.0	45.0	-	0.0	0.0	0.0	0.0	-	-	-	-	-	-
103.0	50.0	2.6	3.1	0.0	0.0	0.0	-	-	-	-	-	-
103.0	60.0	1.9	2.6	0.0	0.0	0.0	-	-	-	-	-	-
103.0	70.0	-	-	0.0	2.7	0.0	-	-	-	-	-	-
103.0	90.0	-	-	-	3.2	-	-	-	-	-	-	-
107.0	35.0	2.9	1.7	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
107.0	40.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
107.0	45.0	-	33.6	0.0	0.0	0.0	-	-	-	-	-	-
107.0	50.0	-	4.9	0.0	0.0	0.0	-	-	-	-	-	-
107.0	55.0	-	10.0	0.0	0.0	0.0	-	-	-	-	-	-
107.0	60.0	8.1	26.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	35.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	40.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	45.0	-	6.2	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	50.0	7.4	20.2	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	55.0	-	32.2	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	60.0	2.1	9.5	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	70.0	3.7	2.4	0.0	0.0	0.0	0.0	0.0	-	0.0	-	-
110.0	80.0	0.0	19.1	0.0	0.0	0.0	0.0	0.0	-	-	-	-
110.0	90.0	-	14.0	0.0	0.0	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

Lampanyctus spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	35.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	37.5	-	35.6	0.0	0.0	0.0	-	-	-	-	-	-
113.0	40.0	4.9	6.3	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	42.5	-	14.2	0.0	0.0	0.0	-	-	-	-	-	-
113.0	45.0	-	2.8	0.0	0.0	0.0	-	-	-	-	-	-
113.0	47.5	-	8.4	0.0	0.0	0.0	-	-	-	-	-	-
113.0	50.0	19.6	13.4	0.0	0.0	0.0	-	-	-	-	-	0.0
113.0	55.0	-	20.4	0.0	0.0	0.0	-	-	-	-	-	-
113.0	60.0	-	20.8	0.0	0.0	0.0	-	-	-	-	-	0.0
117.0	40.0	0.0	14.1	0.0	0.0	2.6	0.0	0.0	-	0.0	-	0.0
117.0	45.0	-	2.8	0.0	0.0	0.0	-	-	-	-	-	0.0
117.0	50.0	0.0	7.0	0.0	0.0	0.0	-	-	-	-	-	0.0
117.0	55.0	-	2.8	0.0	0.0	0.0	-	-	-	-	-	-
117.0	60.0	-	8.8	0.0	0.0	0.0	-	-	-	-	-	0.0
120.0	70.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	80.0	2.5	2.9	-	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	90.0	-	1.7	-	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0	42.0	-	3.1	-	-	-	-	-	-	-	-	-
123.0	47.5	-	2.8	0.0	0.0	0.0	-	-	-	-	-	-
123.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0	34.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0	45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	-	0.0	-	0.0
130.0	45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	-
130.0	55.0	-	4.0	0.0	0.0	0.0	-	-	-	0.0	-	-
130.0	60.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0	25.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0	30.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0	35.0	-	2.8	0.0	0.0	0.0	0.0	0.0	-	-	-	-
133.0	45.0	-	8.9	0.0	0.0	0.0	-	-	-	-	-	-
137.0	30.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
137.0	50.0	0.0	5.6	0.0	0.0	0.0	-	-	-	-	-	-
137.0	140.0	12.2	-	0.0	-	0.0	-	-	-	-	-	5.4
140.0	35.0	2.6	-	-	-	-	-	-	-	-	-	-
140.0	50.0	12.2	-	-	-	-	-	-	-	-	-	-
140.0	110.0	3.2	-	-	-	-	-	-	-	-	-	-
143.0	35.0	17.5	-	-	-	-	-	-	-	-	-	2.6
147.0	20.0	5.6	-	-	-	-	-	-	-	-	-	0.0
147.0	30.0	6.2	-	-	-	-	-	-	-	-	-	0.0
147.0	90.0	3.2	-	-	-	-	-	-	-	-	-	0.0
150.0	19.0	2.8	-	-	-	-	-	-	-	-	-	2.6
150.0	30.0	6.2	-	-	-	-	-	-	-	-	-	-
150.0	40.0	13.9	-	-	-	-	-	-	-	-	-	-
150.0	50.0	16.1	-	-	-	-	-	-	-	-	-	-
150.0	60.0	2.9	-	-	-	-	-	-	-	-	-	-
157.0	20.0	-	-	-	-	-	-	-	-	-	-	2.8

TABLE 4. (cont.)

Lampanyctus spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
157.0	30.0	-	-	-	-	-	-	-	-	-	-	2.7

Lampanyctus regalis

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	90.0	-	-	0.0	6.7	0.0	0.0	-	0.0	-	-	-
67.0	65.0	-	-	-	-	0.0	0.0	5.1	-	-	-	-
70.0	90.0	-	-	0.0	0.0	3.4	-	-	-	-	-	-
73.0	60.0	-	-	0.0	0.0	5.9	-	-	0.0	-	-	-
80.0	60.0	0.0	0.0	0.0	0.0	11.4	0.0	-	0.0	0.0	-	0.0
80.0	80.0	0.0	0.0	0.0	0.0	0.0	2.6	-	0.0	0.0	-	0.0
83.0	70.0	-	-	0.0	0.0	10.6	-	-	-	-	-	-
83.0	90.0	-	-	0.0	0.0	7.8	-	-	-	-	-	-
87.0	70.0	-	-	0.0	8.9	-	-	-	-	-	-	-
90.0	41.0	-	-	-	0.0	2.3	-	-	-	-	-	-
90.0	60.0	0.0	0.0	0.0	0.0	3.4	0.0	-	0.0	0.0	-	0.0
90.0	90.0	0.0	-	0.0	2.7	-	-	-	-	-	-	-
93.0	55.0	-	-	0.0	2.6	0.0	-	-	-	0.0	-	-
93.0	70.0	-	0.0	0.0	0.0	2.6	-	-	-	-	-	-
93.0	80.0	-	-	0.0	2.3	-	-	-	-	-	-	-
97.0	45.0	-	-	0.0	2.6	0.0	0.0	-	0.0	0.0	-	-
97.0	50.0	0.0	0.0	0.0	2.7	0.0	0.0	-	0.0	0.0	-	0.0
103.0	45.0	0.0	0.0	2.9	0.0	0.0	-	-	0.0	-	-	-
113.0	47.5	-	0.0	0.0	0.0	2.6	-	-	-	-	-	-

Lampanyctus ritteri

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0	70.0	-	-	-	-	17.0	-	-	-	-	-	-
50.0	80.0	-	-	-	-	40.9	-	-	-	-	-	-
50.0	100.0	-	-	-	-	4.9	-	-	-	-	-	-
53.0	65.0	-	-	-	-	5.1	-	-	-	-	-	-
60.0	70.0	-	-	5.4	0.0	0.0	10.3	0.0	-	-	-	-
60.0	80.0	-	-	2.5	0.0	0.0	3.0	-	13.9	-	-	-
60.0	90.0	-	-	0.0	13.3	17.8	0.0	-	2.6	-	-	-
60.0	100.0	-	-	0.0	-	24.6	4.7	-	8.4	-	-	-
67.0	55.0	-	-	0.0	5.8	0.0	9.7	0.0	-	-	-	-
67.0	65.0	-	-	-	-	0.0	4.6	0.0	-	-	-	-
70.0	51.0	-	-	-	2.5	-	-	-	-	-	-	-
70.0	55.0	-	-	0.0	4.8	0.0	0.0	-	0.0	-	-	-
70.0	60.0	-	-	0.0	13.5	0.0	0.0	-	0.0	-	-	-
70.0	70.0	-	-	3.7	8.6	21.8	0.0	-	0.0	-	-	-
70.0	80.0	-	-	-	19.2	0.0	2.7	-	2.6	-	-	-
70.0	90.0	-	-	4.6	10.9	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

Lampanyctus ritteri (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	100.0	-	-	-	2.8	4.4	2.4	-	-	-	-	-
73.0	50.0	-	-	0.0	0.0	0.0	0.0	-	0.0	-	-	-
73.0	60.0	-	-	13.3	0.0	11.8	-	-	0.0	-	-	-
77.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	-	-
77.0	55.0	0.0	2.9	0.0	0.0	0.0	10.5	-	0.0	-	-	-
77.0	65.0	-	-	0.0	0.0	0.0	0.0	-	0.0	-	-	-
80.0	60.0	0.0	0.0	0.0	9.9	0.0	0.0	-	0.0	0.0	-	0.0
80.0	70.0	0.0	0.0	0.0	4.2	-	0.0	-	0.0	0.0	-	0.0
80.0	80.0	0.0	0.0	0.0	10.4	3.0	5.1	-	0.0	0.0	-	0.0
80.0	90.0	0.0	0.0	2.5	4.9	0.0	7.8	-	0.0	0.0	-	0.0
80.0	100.0	0.0	-	-	-	16.5	-	-	8.9	-	-	-
83.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	2.6	-	0.0
83.0	80.0	-	-	20.1	12.6	7.7	-	-	-	-	-	-
83.0	90.0	-	-	6.8	11.2	7.8	-	-	-	-	-	-
85.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	3.0	-	0.0
85.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.7	0.0	-	0.0
85.0	60.0	0.0	0.0	0.0	0.0	0.0	14.3	-	0.0	0.0	-	2.8
87.0	70.0	-	-	4.9	11.9	-	-	-	-	-	-	-
87.0	80.0	-	-	18.2	5.7	2.4	-	-	-	-	-	-
87.0	90.0	-	-	0.0	16.9	2.3	-	-	-	-	-	-
90.0	30.0	0.0	0.0	0.0	0.0	0.0	3.1	-	0.0	0.0	-	0.0
90.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.8	0.0	-	0.0
90.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.0	0.0	-	0.0
90.0	70.0	0.0	0.0	0.0	0.0	6.3	0.0	-	2.5	0.0	-	3.2
90.0	80.0	0.0	-	0.0	10.5	20.2	-	-	-	-	-	-
90.0	90.0	0.0	-	14.3	5.4	-	-	-	-	-	-	-
93.0	45.0	-	-	0.0	0.0	2.5	0.0	-	0.0	0.0	-	3.3
93.0	50.0	0.0	-	0.0	0.0	0.0	0.0	-	5.9	0.0	-	-
93.0	55.0	-	-	0.0	18.4	0.0	-	-	-	-	-	-
93.0	60.0	0.0	-	3.3	10.2	0.0	-	-	-	-	-	-
93.0	70.0	-	-	0.0	4.0	2.6	-	-	-	-	-	-
93.0	80.0	-	0.0	6.0	2.3	-	-	-	-	-	-	-
97.0	40.0	0.0	0.0	0.0	2.8	2.8	0.0	-	2.8	10.3	-	0.0
97.0	45.0	0.0	-	0.0	21.0	0.0	2.5	-	0.0	2.9	-	-
97.0	50.0	0.0	0.0	0.0	0.0	11.6	0.0	-	14.9	0.0	-	0.0
97.0	55.0	-	-	0.0	5.1	16.3	-	-	-	3.8	-	-
97.0	60.0	0.0	0.0	0.0	0.0	2.6	-	-	-	-	-	-
97.0	70.0	-	0.0	0.0	3.2	0.0	-	-	-	-	-	-
97.0	80.0	-	-	9.3	2.9	0.0	-	-	-	-	-	-
97.0	90.0	-	-	11.3	11.1	0.0	-	-	-	-	-	-
100.0	29.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	3.0
100.0	30.0	0.0	0.0	0.0	0.0	2.7	0.0	-	0.0	0.0	-	0.0
100.0	35.0	-	0.0	0.0	2.6	0.0	0.0	-	9.6	0.0	-	0.0
100.0	40.0	0.0	0.0	0.0	0.0	9.2	0.0	-	8.9	0.0	-	-
100.0	45.0	-	0.0	0.0	0.0	3.0	0.0	-	-	-	-	-

TABLE 4. (cont.)

Lampanyctus ritteri (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	50.0	0.0	0.0	0.0	3.2	5.7	8.8	-	5.4	0.0	-	-
100.0	55.0	-	0.0	2.9	15.0	0.0	-	-	-	0.0	-	-
100.0	60.0	0.0	0.0	3.0	2.7	17.4	0.0	2.9	-	0.0	-	0.0
100.0	70.0	0.0	0.0	2.9	13.9	0.0	3.1	0.0	-	5.8	-	0.0
100.0	80.0	0.0	0.0	6.4	32.6	12.1	5.7	-	-	6.1	-	-
100.0	90.0	-	0.0	8.7	13.5	9.4	-	-	-	0.0	-	3.7
100.0	100.0	-	-	3.0	3.4	-	-	-	-	-	-	-
103.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	2.9
103.0	40.0	0.0	0.0	3.3	3.0	0.0	0.0	0.0	-	0.0	-	0.0
103.0	45.0	-	0.0	14.7	0.0	8.9	-	-	-	-	-	-
103.0	50.0	0.0	0.0	30.4	4.7	6.3	-	-	-	-	-	-
103.0	55.0	-	0.0	23.3	29.1	15.1	-	-	-	-	-	-
103.0	60.0	0.0	0.0	17.6	35.8	26.6	-	-	-	-	-	-
103.0	70.0	-	-	9.0	16.1	5.8	-	-	-	-	-	-
103.0	80.0	-	-	12.9	10.3	2.8	-	-	-	-	-	-
103.0	90.0	-	-	-	3.2	-	-	-	-	-	-	-
107.0	32.0	0.0	0.0	0.0	0.0	5.8	0.0	0.0	-	0.0	-	3.0
107.0	35.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	-	0.0	-	0.0
107.0	40.0	0.0	0.0	3.7	0.0	3.1	0.0	0.0	-	2.8	-	6.8
107.0	45.0	-	0.0	6.5	2.9	0.0	-	-	-	-	-	-
107.0	50.0	-	0.0	10.9	3.3	2.9	-	-	-	-	-	-
107.0	55.0	-	0.0	6.9	2.9	39.8	-	-	-	-	-	-
107.0	60.0	0.0	0.0	3.5	3.3	19.2	-	-	-	-	-	-
107.0	70.0	-	-	13.6	7.0	9.6	-	-	-	-	-	-
107.0	80.0	-	-	11.8	48.6	-	-	-	-	-	-	-
110.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	2.9
110.0	35.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	-	0.0	-	0.0
110.0	40.0	0.0	0.0	15.7	6.0	11.9	0.0	0.0	-	0.0	-	0.0
110.0	45.0	-	0.0	0.0	3.5	18.2	0.0	0.0	-	0.0	-	0.0
110.0	50.0	0.0	0.0	3.0	14.3	9.1	0.0	0.0	-	0.0	-	0.0
110.0	55.0	-	0.0	6.1	16.9	2.5	-	6.2	-	0.0	-	0.0
110.0	60.0	0.0	0.0	3.4	14.0	8.2	0.0	3.0	-	3.3	-	0.0
110.0	70.0	0.0	0.0	31.3	0.0	15.1	-	-	-	-	-	-
110.0	80.0	-	0.0	16.0	3.5	2.8	-	-	-	-	-	-
110.0	90.0	-	-	2.8	8.4	0.0	-	-	-	-	-	-
113.0	37.5	-	0.0	3.3	5.4	0.0	-	-	-	-	-	-
113.0	40.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	42.5	-	0.0	14.2	2.8	2.8	-	-	-	-	-	-
113.0	45.0	-	0.0	6.1	5.9	0.0	-	-	-	-	-	-
113.0	47.5	-	0.0	23.4	6.4	0.0	-	-	-	-	-	-
113.0	50.0	0.0	0.0	0.0	48.1	12.3	-	-	-	-	-	0.0
113.0	55.0	-	0.0	22.2	22.5	8.5	-	-	-	-	-	5.9
113.0	60.0	-	0.0	3.5	5.9	0.0	-	-	-	-	-	-
113.0	70.0	-	-	7.1	24.1	0.0	-	-	-	-	-	2.4
117.0	35.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0	-	3.0	-	0.0
117.0	40.0	0.0	0.0	14.8	10.5	0.0	3.0	0.0	-	0.0	-	0.0

TABLE 4. (cont.)

Lampanyctus ritteri (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	42.5	-	0.0	5.6	7.7	26.0	-	-	-	-	-	-
117.0	45.0	0.0	0.0	2.7	5.6	8.9	-	-	-	-	-	-
117.0	47.5	-	0.0	25.7	4.8	9.0	-	-	-	-	-	-
117.0	50.0	0.0	0.0	30.9	14.9	9.1	-	-	-	-	-	0.0
117.0	55.0	0.0	0.0	52.7	6.3	3.2	-	-	-	-	-	-
117.0	60.0	0.0	0.0	7.1	126.4	0.0	-	-	-	-	-	0.0
117.0	70.0	-	-	0.0	6.3	3.4	-	-	-	-	-	-
120.0	45.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	-	0.0
120.0	47.5	-	0.0	0.0	0.0	8.0	-	-	-	-	-	-
120.0	50.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	-	0.0
120.0	55.0	0.0	0.0	15.0	0.0	5.4	-	-	-	-	-	-
120.0	60.0	0.0	0.0	23.2	27.4	2.4	9.6	0.0	0.0	0.0	-	0.0
120.0	70.0	0.0	0.0	5.9	28.6	0.0	0.0	6.0	0.0	0.0	-	3.0
120.0	80.0	0.0	0.0	-	0.0	0.0	0.0	5.7	0.0	0.0	-	0.0
120.0	90.0	-	0.0	-	0.0	0.0	2.6	11.5	0.0	2.9	-	0.0
123.0	37.0	0.0	0.0	0.0	0.0	2.6	-	-	-	0.0	-	-
123.0	42.5	-	0.0	0.0	0.0	9.4	2.9	0.0	-	0.0	-	0.0
123.0	45.0	-	0.0	0.0	0.0	5.8	-	-	-	-	-	-
123.0	47.5	-	0.0	3.9	0.0	0.0	6.4	10.0	-	0.0	-	0.0
123.0	50.0	0.0	0.0	28.7	0.0	0.0	-	-	-	0.0	-	0.0
123.0	55.0	-	0.0	10.7	0.0	0.0	-	-	-	0.0	-	0.0
123.0	60.0	0.0	0.0	2.8	0.0	5.8	0.0	-	-	-	-	-
127.0	34.0	0.0	0.0	0.0	0.0	0.0	-	2.9	-	-	-	0.0
127.0	37.0	-	0.0	0.0	2.9	0.0	-	-	-	-	-	-
127.0	42.5	-	0.0	0.0	3.0	0.0	-	-	-	-	-	-
127.0	45.0	-	0.0	0.0	0.0	2.9	0.0	5.9	-	0.0	-	0.0
127.0	47.5	-	0.0	9.8	0.0	0.0	-	-	-	-	-	-
127.0	50.0	0.0	0.0	0.0	3.2	0.0	2.9	13.9	-	0.0	-	0.0
127.0	55.0	-	0.0	3.5	0.0	5.9	-	-	-	0.0	-	0.0
127.0	60.0	-	0.0	30.4	6.6	5.3	-	-	-	-	-	-
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	-	0.0	-	0.0
130.0	40.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	-	0.0	-	0.0
130.0	45.0	-	0.0	3.2	0.0	6.2	5.4	3.4	-	0.0	-	-
130.0	50.0	0.0	0.0	3.1	0.0	0.0	0.0	7.2	-	0.0	-	0.0
130.0	55.0	-	0.0	0.0	0.0	2.7	-	-	-	0.0	-	-
130.0	60.0	0.0	0.0	0.0	6.8	0.0	0.0	0.0	-	0.0	-	0.0
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	-	0.0	-	0.0
133.0	50.0	-	0.0	5.8	0.0	0.0	-	-	-	-	-	-
137.0	50.0	-	0.0	2.9	0.0	7.9	-	-	-	-	-	-
137.0	60.0	-	-	7.6	0.0	-	-	-	-	-	-	-

Notolynchus valdiviae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	90.0	-	0.0	0.0	3.4	0.0	-	-	-	0.0	-	0.0

TABLE 4. (cont.)

Notolynchus valdiviae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0	55.0	-	0.0	0.0	0.0	3.0	-	-	-	-	-	-

<i>Notoscopelus resplendens</i>												
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	90.0	0.0	0.0	2.9	3.4	0.0	-	-	-	0.0	-	0.0
103.0	55.0	-	0.0	0.0	0.0	3.0	-	-	-	-	-	-
103.0	60.0	0.0	0.0	0.0	2.8	0.0	-	-	-	-	-	-
103.0	70.0	-	-	3.0	0.0	0.0	-	-	-	-	-	-
103.0	80.0	-	-	0.0	3.4	0.0	-	-	-	-	-	-
107.0	80.0	-	-	0.0	4.1	-	-	-	-	-	-	-
127.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	-	0.0	-	0.0

Stenobrachius leucopsarus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0	47.0	-	-	-	-	3.1	-	-	-	-	-	-
50.0	60.0	-	-	-	-	2.9	-	-	-	-	-	-
50.0	70.0	-	-	-	-	2.8	-	-	-	-	-	-
50.0	80.0	-	-	-	-	27.3	-	-	-	-	-	-
50.0	100.0	-	-	-	-	2.5	-	-	-	-	-	-
53.0	52.0	-	-	-	-	100.5	-	-	-	-	-	-
53.0	55.0	-	-	-	-	9.3	-	-	-	-	-	-
53.0	65.0	-	-	-	-	10.2	-	-	-	-	-	-
57.0	55.0	-	-	-	-	5.6	-	-	-	-	-	-
57.0	65.0	-	-	-	-	3.0	-	-	-	-	-	-
60.0	55.0	-	-	2.8	5.0	0.0	0.0	0.0	-	-	-	-
60.0	60.0	-	-	2.2	14.1	28.4	0.0	0.0	-	-	-	-
60.0	70.0	-	-	36.2	22.4	13.7	20.6	0.0	-	-	-	-
60.0	80.0	-	-	29.6	52.3	0.0	56.2	-	0.0	-	-	-
60.0	90.0	-	-	63.3	66.6	77.0	8.0	-	0.0	-	-	-
60.0	100.0	-	-	-	-	52.4	2.3	-	0.0	-	-	-
63.0	55.0	-	-	0.0	4.6	46.0	0.0	0.0	-	-	-	-
67.0	55.0	-	-	0.0	0.0	4.7	0.0	0.0	-	-	-	-
67.0	55.0	-	-	21.4	81.5	24.1	9.7	0.0	-	-	-	-
67.0	65.0	-	-	-	-	25.1	36.5	0.0	-	-	-	-
70.0	51.0	-	-	-	17.7	-	-	-	-	-	-	-
70.0	52.0	-	-	-	-	44.8	0.0	-	0.0	-	-	-
70.0	55.0	-	-	47.5	77.1	0.0	0.0	-	0.0	-	-	-
70.0	60.0	-	-	146.6	54.1	0.0	0.0	-	0.0	-	-	-
70.0	70.0	-	-	95.2	10.7	6.2	0.0	-	0.0	-	-	-
70.0	80.0	-	-	-	46.6	3.2	0.0	-	0.0	-	-	-
70.0	90.0	-	-	22.9	21.8	0.0	-	-	-	-	-	-
73.0	50.0	-	-	56.4	24.3	3.2	-	-	0.0	-	-	-

TABLE 4. (cont.)

Stenobrachius leucopsarus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
73.0	60.0	-	-	7.3	11.5	0.0	-	-	0.0	-	-	-
77.0	50.0	379.1	236.3	64.4	-	0.0	0.0	-	0.0	0.0	-	-
77.0	55.0	117.6	441.6	66.5	56.0	7.2	46.9	-	0.0	0.0	-	-
77.0	65.0	-	-	10.5	17.4	-	-	-	0.0	-	-	-
80.0	51.0	46.7	458.8	34.6	29.8	6.7	4.1	-	0.0	0.0	-	0.0
80.0	55.0	41.0	70.8	20.2	9.1	11.2	0.0	-	0.0	0.0	-	3.4
80.0	60.0	11.6	179.8	87.8	39.7	136.3	0.0	-	0.0	0.0	-	3.2
80.0	70.0	60.3	140.6	182.2	50.6	-	0.0	-	0.0	0.0	-	0.0
80.0	80.0	216.8	85.8	7.4	15.6	0.0	0.0	-	0.0	0.0	-	2.8
80.0	90.0	13.5	32.1	7.5	9.8	0.0	0.0	-	0.0	0.0	-	0.0
80.0	100.0	8.6	-	-	-	0.0	-	-	0.0	-	-	-
80.0	110.0	2.8	-	-	-	-	-	-	-	-	-	-
82.0	47.0	21.1	62.4	29.2	5.1	37.6	0.0	-	0.0	0.0	-	6.5
83.0	40.0	0.0	24.2	1.4	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	43.0	148.5	36.9	63.9	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	48.0	55.0	76.7	49.2	38.9	0.0	2.4	-	0.0	0.0	-	3.6
83.0	51.0	42.1	130.2	5.0	20.3	0.0	0.0	-	0.0	0.0	-	12.7
83.0	55.0	46.0	260.0	73.7	22.8	0.0	0.0	-	0.0	0.0	-	0.0
83.0	60.0	49.8	212.5	14.6	118.7	13.7	0.0	-	0.0	0.0	-	2.9
83.0	80.0	-	-	37.3	22.7	7.7	-	-	-	-	-	-
83.0	90.0	-	-	36.2	5.6	0.0	-	-	-	-	-	-
85.0	39.0	-	78.0	89.0	1.6	0.0	-	-	0.0	0.0	-	31.1
85.0	40.0	8.3	103.4	149.0	0.0	-	0.0	-	0.0	0.0	-	14.6
85.0	45.0	10.9	195.9	120.3	64.7	0.0	0.0	-	0.0	0.0	-	0.0
85.0	50.0	243.9	20.7	46.0	53.0	22.4	5.7	-	0.0	0.0	-	22.1
85.0	55.0	64.1	115.6	20.4	100.7	27.0	20.6	-	0.0	0.0	-	0.0
85.0	60.0	58.3	293.9	57.4	86.4	0.0	0.0	-	0.0	0.0	-	0.0
87.0	35.0	28.6	606.1	247.5	0.0	3.1	0.0	-	0.0	0.0	-	36.8
87.0	40.0	4.6	271.7	0.0	38.9	3.1	0.0	-	0.0	0.0	-	15.7
87.0	45.0	64.8	400.0	8.3	191.4	9.6	0.0	-	0.0	0.0	-	6.2
87.0	50.0	8.0	34.4	0.0	44.6	0.0	0.0	-	0.0	0.0	-	0.0
87.0	55.0	78.1	0.0	3.1	26.0	0.0	0.0	-	0.0	0.0	-	3.2
87.0	60.0	13.7	21.4	132.5	88.8	0.0	0.0	-	0.0	0.0	-	0.0
87.0	70.0	-	-	31.7	5.9	-	-	-	-	-	-	-
87.0	80.0	-	-	28.6	5.7	0.0	-	-	-	-	-	-
87.0	90.0	-	-	2.4	39.5	0.0	-	-	-	-	-	-
90.0	28.0	29.3	110.0	48.6	2.2	6.3	0.0	-	0.0	0.0	-	0.0
90.0	30.0	176.4	376.7	41.0	90.8	15.2	0.0	-	0.0	0.0	-	11.8
90.0	33.5	-	-	-	32.5	10.3	-	-	-	-	-	-
90.0	37.0	36.5	7.4	3.0	14.5	4.0	0.0	-	0.0	0.0	-	13.1
90.0	41.0	-	-	-	45.2	23.5	-	-	-	-	-	-
90.0	45.0	28.1	66.7	6.2	10.4	2.4	0.0	-	0.0	0.0	-	3.5
90.0	50.0	-	-	-	33.7	9.8	-	-	-	-	-	0.0
90.0	53.0	17.4	-	-	-	-	-	-	-	-	-	-
90.0	55.0	-	75.8	8.3	12.9	0.0	0.0	-	0.0	0.0	-	-
90.0	60.0	3.2	96.1	11.7	60.6	0.0	0.0	-	0.0	0.0	-	45.9

TABLE 4. (cont.)

Stenobrachius leucopsarus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	70.0	20.6	16.4	2.8	15.7	0.0	0.0	-	0.0	0.0	-	3.2
90.0	80.0	91.1	-	2.9	0.0	6.7	-	-	-	-	-	-
90.0	90.0	1.8	-	8.6	8.2	-	-	-	-	-	-	-
93.0	27.0	4.0	44.6	4.9	3.4	6.3	0.0	-	0.0	0.0	-	0.0
93.0	30.0	9.4	61.8	17.5	0.0	5.1	0.0	-	0.0	0.0	-	0.0
93.0	35.0	-	-	168.2	26.2	0.0	0.0	-	0.0	-	-	-
93.0	40.0	12.9	237.5	28.5	108.2	-	0.0	-	0.0	0.0	-	0.0
93.0	45.0	-	-	20.0	11.0	0.0	0.0	-	0.0	0.0	-	-
93.0	50.0	42.9	-	6.2	58.9	0.0	0.0	-	0.0	0.0	-	19.6
93.0	55.0	-	-	4.0	15.8	25.9	-	-	0.0	-	-	-
93.0	60.0	40.6	-	20.0	7.7	6.6	-	-	-	-	-	-
93.0	70.0	-	7.8	0.0	6.1	5.3	-	-	-	-	-	-
93.0	80.0	-	-	6.0	2.3	-	-	-	-	-	-	-
93.0	90.0	-	-	0.0	2.3	-	-	-	-	-	-	-
97.0	30.0	5.0	45.0	26.5	7.8	5.4	0.0	-	0.0	0.0	-	0.0
97.0	32.0	20.8	61.6	-	31.2	0.0	0.0	-	0.0	0.0	-	0.0
97.0	36.0	-	-	-	37.8	13.2	-	-	-	-	-	-
97.0	40.0	0.0	2.5	131.4	5.6	2.8	0.0	-	0.0	0.0	-	3.1
97.0	45.0	-	-	54.9	2.6	10.9	0.0	-	0.0	0.0	-	-
97.0	50.0	3.8	8.7	6.5	0.0	0.0	0.0	-	0.0	0.0	-	0.0
97.0	55.0	-	-	0.0	7.7	0.0	-	-	-	-	-	-
97.0	60.0	17.0	32.6	0.0	0.0	2.6	-	-	-	-	-	-
97.0	70.0	-	48.2	17.3	3.2	0.0	-	-	-	-	-	-
97.0	80.0	-	-	0.0	2.9	0.0	-	-	-	-	-	-
97.0	90.0	-	-	0.0	2.8	0.0	-	-	-	-	-	-
100.0	29.0	2.7	0.0	0.0	5.8	2.7	0.0	-	0.0	0.0	-	0.0
100.0	30.0	7.0	0.0	10.6	61.3	21.4	0.0	-	0.0	0.0	-	0.0
100.0	35.0	-	0.0	164.2	103.6	2.9	0.0	-	0.0	0.0	-	0.0
100.0	40.0	7.1	24.2	121.7	57.6	0.0	0.0	-	0.0	0.0	-	0.0
100.0	45.0	-	5.3	44.3	6.9	33.2	0.0	-	5.9	0.0	-	-
100.0	50.0	10.5	14.6	3.0	9.5	0.0	0.0	-	0.0	0.0	-	-
100.0	55.0	-	46.1	14.3	7.5	0.0	-	-	0.0	0.0	-	-
100.0	60.0	0.0	35.3	21.0	0.0	7.4	0.0	0.0	-	0.0	-	0.0
100.0	70.0	0.0	13.5	17.4	0.0	0.0	0.0	0.0	-	0.0	-	0.0
100.0	80.0	0.0	5.1	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	90.0	0.0	4.6	0.0	0.0	0.0	-	-	-	0.0	-	0.0
103.0	30.0	0.0	6.8	9.4	0.0	0.0	0.0	0.0	-	0.0	-	0.0
103.0	35.0	9.5	4.7	34.9	5.0	2.9	0.0	0.0	-	2.3	-	0.0
103.0	40.0	0.0	5.2	6.5	18.0	0.0	0.0	-	-	0.0	-	0.0
103.0	45.0	-	0.0	0.0	2.6	0.0	-	-	-	-	-	-
103.0	50.0	2.6	12.4	3.0	4.7	0.0	-	-	-	-	-	-
103.0	60.0	0.0	2.4	2.9	0.0	13.3	-	-	-	-	-	-
103.0	80.0	-	0.0	3.2	0.0	0.0	-	-	-	-	-	-
107.0	32.0	0.0	21.5	6.3	11.8	0.0	0.0	0.0	-	0.0	-	0.0
107.0	35.0	0.0	0.0	36.6	71.5	0.0	0.0	0.0	-	0.0	-	0.0
107.0	40.0	1.8	0.0	7.3	2.6	0.0	0.0	0.0	-	0.0	-	0.0

TABLE 4. (cont.)

Stenobrachius leucopsarus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	45.0	-	0.0	26.0	5.9	6.1	-	-	-	-	-	-
107.0	50.0	0.0	9.7	0.0	0.0	0.0	-	-	-	-	-	-
107.0	55.0	-	3.3	0.0	0.0	0.0	-	-	-	-	-	-
107.0	60.0	42.6	0.0	0.0	0.0	0.0	-	-	-	-	-	-
110.0	33.0	0.0	0.0	29.9	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	35.0	0.0	2.7	31.9	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	40.0	0.0	0.0	34.5	0.0	3.0	0.0	0.0	-	0.0	-	0.0
113.0	32.5	-	0.0	0.0	0.0	5.5	-	-	-	-	-	-
113.0	35.0	10.5	1.4	41.5	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	45.0	-	0.0	0.0	0.0	0.0	-	-	-	-	-	-
113.0	60.0	5.7	3.5	0.0	0.0	0.0	-	-	-	-	-	0.0
117.0	26.0	-	0.0	0.0	5.2	0.0	0.0	0.0	-	0.0	-	0.0
117.0	28.0	-	0.0	0.0	4.6	0.0	0.0	0.0	-	-	-	-
117.0	30.0	0.0	0.0	0.0	9.4	0.0	0.0	0.0	-	0.0	-	0.0
117.0	35.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
117.0	37.5	-	0.0	13.9	0.0	0.0	-	-	-	-	-	-
117.0	40.0	0.0	0.0	18.6	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	35.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	45.0	0.0	0.0	11.7	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	55.0	-	0.0	0.0	5.9	0.0	-	-	-	-	-	-
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	-	0.0	-	0.0
123.0	40.0	0.0	0.0	7.4	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0	42.5	-	0.0	25.2	0.0	0.0	-	0.0	-	-	-	-
123.0	45.0	-	0.0	13.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0

Triphoturus mexicanus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	3.2
80.0	90.0	-	0.0	0.0	0.0	0.0	7.8	-	0.0	0.0	-	0.0
83.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0	-	5.4	0.0	-	0.0
83.0	48.0	0.0	0.0	0.0	0.0	0.0	2.4	-	0.0	2.7	-	0.0
83.0	51.0	0.0	0.0	0.0	0.0	0.0	1.9	-	2.3	3.4	-	0.0
83.0	90.0	-	-	0.0	0.0	2.6	-	-	-	-	-	-
85.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	-	4.8	0.0	-	0.0
85.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	12.8	0.0	-	0.0
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	15.5	0.0	-	0.0
87.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	-	7.5	0.0	-	0.0
87.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.4	2.9	-	0.0
87.0	60.0	0.0	0.0	5.8	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	70.0	-	-	0.0	14.9	-	-	-	-	-	-	-
87.0	90.0	-	-	0.0	0.0	2.3	-	-	-	-	-	-
90.0	28.0	0.0	0.0	0.0	0.0	0.0	7.7	-	5.3	2.6	-	0.0
90.0	30.0	0.0	0.0	0.0	0.0	5.1	31.3	-	13.4	0.0	-	0.0
90.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	-	22.3	2.9	-	0.0

TABLE 4. (cont.)

Triphoturus mexicanus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	-	10.8	0.0	-	0.0
90.0	50.0	-	-	-	7.2	0.0	-	-	-	0.0	-	0.0
90.0	55.0	0.0	0.0	2.8	0.0	0.0	0.0	-	17.9	2.8	-	-
90.0	60.0	0.0	2.3	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	70.0	0.0	0.0	0.0	0.0	6.3	0.0	-	0.0	0.0	-	0.0
90.0	80.0	2.7	0.0	0.0	3.5	6.7	-	-	-	-	-	-
90.0	90.0	0.0	-	5.7	0.0	-	-	-	-	-	-	-
93.0	27.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.8	0.0	-	0.0
93.0	30.0	0.0	0.0	0.0	0.0	0.0	9.5	-	5.1	0.0	-	0.0
93.0	35.0	-	-	0.0	0.0	0.0	3.3	-	2.7	0.0	-	-
93.0	40.0	0.0	0.0	0.0	0.0	-	54.2	-	0.0	5.9	-	0.0
93.0	45.0	-	-	0.0	0.0	0.0	0.0	-	2.2	2.6	-	-
93.0	50.0	0.0	-	0.0	0.0	0.0	0.0	-	5.9	0.0	-	0.0
93.0	55.0	-	-	0.0	23.7	0.0	-	-	-	0.0	-	-
93.0	60.0	0.0	-	0.0	12.8	0.0	-	-	-	-	-	-
93.0	80.0	-	-	0.0	11.5	-	-	-	-	-	-	-
93.0	90.0	-	-	0.0	11.3	-	-	-	-	-	-	-
97.0	30.0	0.0	0.0	0.0	0.0	2.7	0.0	-	6.3	0.0	-	0.0
97.0	32.0	0.0	0.0	-	0.0	20.6	2.8	-	0.0	0.0	-	0.0
97.0	40.0	0.0	0.0	0.0	0.0	5.7	10.6	-	2.8	3.4	-	6.2
97.0	45.0	-	-	0.0	21.0	8.2	4.9	-	0.0	25.7	-	-
97.0	50.0	0.0	5.8	3.3	29.7	17.3	0.0	-	12.4	4.2	-	0.0
97.0	55.0	-	-	0.0	5.1	16.3	-	-	-	0.0	-	-
97.0	60.0	0.0	0.0	0.0	2.0	2.6	-	-	-	-	-	-
97.0	70.0	-	0.0	0.0	6.5	0.0	-	-	-	-	-	-
97.0	80.0	-	-	0.0	2.9	0.0	-	-	-	-	-	-
97.0	90.0	-	-	0.0	11.1	2.6	-	-	-	-	-	-
100.0	29.0	0.0	2.0	0.0	0.0	38.4	2.4	-	0.0	5.3	-	0.0
100.0	30.0	0.0	2.1	0.0	0.0	34.7	16.6	-	0.0	3.1	-	0.0
100.0	35.0	-	2.8	0.0	0.0	106.6	13.8	-	12.8	-	-	-
100.0	40.0	0.0	0.0	0.0	0.0	18.5	35.9	-	0.0	12.2	-	0.0
100.0	45.0	-	0.0	0.0	0.0	19.8	10.1	-	5.9	3.2	-	-
100.0	50.0	0.0	0.0	0.0	6.4	5.5	26.4	-	8.1	0.0	-	-
100.0	55.0	-	0.0	0.0	3.7	-	-	-	-	0.0	-	-
100.0	60.0	0.0	0.0	0.0	0.0	9.9	14.6	0.0	-	0.0	-	0.0
100.0	70.0	0.0	6.8	0.0	10.4	2.9	3.1	14.9	-	2.9	-	3.7
100.0	80.0	0.0	5.1	0.0	0.0	12.1	34.4	-	-	3.0	-	-
100.0	90.0	0.0	0.0	5.8	0.0	2.3	-	-	-	0.0	-	0.0
100.0	100.0	-	-	3.0	6.7	-	-	-	-	-	-	-
103.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	-	0.0	-	0.0
103.0	35.0	0.0	0.0	0.0	7.4	38.0	0.0	9.1	-	4.6	-	0.0
103.0	40.0	0.0	0.0	0.0	3.0	5.8	0.0	5.9	-	2.9	-	0.0
103.0	45.0	-	3.0	0.0	5.1	47.2	-	-	-	-	-	-
103.0	50.0	0.0	0.0	52.7	37.8	18.8	-	-	-	-	-	-
103.0	55.0	-	0.0	27.4	98.9	39.3	-	-	-	-	-	-
103.0	60.0	0.0	2.6	0.0	0.0	42.6	-	-	-	-	-	-

TABLE 4. (cont.)

Triphoturus mexicanus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0	70.0	-	-	6.0	0.0	29.1	-	-	-	-	-	-
103.0	80.0	-	-	19.4	27.4	5.6	-	-	-	-	-	-
103.0	90.0	-	-	-	15.9	-	-	-	-	-	-	-
107.0	32.0	0.0	0.0	0.0	5.9	89.9	45.0	24.6	-	6.4	-	0.0
107.0	35.0	0.0	3.3	0.0	0.0	3.3	6.3	24.7	-	142.6	-	0.0
107.0	40.0	0.0	2.8	0.0	7.8	30.7	46.2	46.4	-	42.5	-	3.4
107.0	45.0	-	9.6	16.3	0.0	18.4	-	-	-	-	-	-
107.0	50.0	0.0	0.0	3.6	23.2	34.4	-	-	-	-	-	-
107.0	55.0	-	5.0	3.4	22.9	76.5	-	-	-	-	-	-
107.0	60.0	0.0	2.4	14.0	13.4	67.2	-	-	-	-	-	-
107.0	70.0	-	-	23.8	10.5	70.6	-	-	-	-	-	-
107.0	80.0	-	-	14.7	72.9	-	-	-	-	-	-	-
110.0	33.0	0.0	0.0	0.0	3.2	0.0	18.4	61.0	-	0.0	-	0.0
110.0	35.0	0.0	0.0	0.0	9.2	21.8	324.1	62.6	-	0.0	-	0.0
110.0	40.0	0.0	2.0	0.0	9.0	71.5	130.6	44.4	-	10.6	-	0.0
110.0	45.0	-	3.0	2.9	10.5	103.4	57.3	25.8	-	0.0	-	0.0
110.0	50.0	0.0	3.2	11.8	134.4	166.6	31.4	96.1	-	2.8	-	0.0
110.0	55.0	-	6.3	18.2	141.5	102.0	-	-	-	5.4	-	0.0
110.0	60.0	0.0	0.0	13.5	56.0	139.7	12.6	17.7	-	0.0	-	0.0
110.0	70.0	0.0	10.9	339.8	51.7	78.8	-	-	-	-	-	-
110.0	80.0	-	0.0	140.4	10.6	31.1	-	-	-	-	-	-
110.0	90.0	-	-	25.6	97.7	-	-	-	-	-	-	-
113.0	30.0	0.0	4.9	0.0	0.0	0.0	0.0	14.3	-	2.6	-	0.0
113.0	35.0	0.0	1.4	0.0	6.1	0.0	63.5	192.0	-	7.9	-	0.0
113.0	37.5	-	5.1	0.0	21.8	6.2	-	-	-	-	-	0.0
113.0	40.0	0.0	0.0	13.9	66.4	56.8	39.3	75.9	-	16.6	-	-
113.0	42.5	-	14.2	14.2	27.9	137.7	-	-	-	-	-	-
113.0	45.0	-	0.0	42.8	173.5	94.7	-	-	-	-	-	-
113.0	47.5	-	11.2	55.5	60.8	205.6	-	-	-	-	-	-
113.0	50.0	0.0	2.0	27.5	288.7	48.2	-	-	-	-	-	0.0
113.0	55.0	-	10.2	139.5	132.1	298.8	-	-	-	-	-	0.0
113.0	60.0	-	3.5	58.8	115.4	295.4	-	-	-	-	-	0.0
113.0	70.0	-	-	10.7	39.1	166.4	-	-	-	-	-	0.0
117.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	-	7.9	-	0.0
117.0	28.0	-	0.0	0.0	0.0	6.1	-	-	-	-	-	-
117.0	30.0	0.0	0.0	2.6	7.0	2.5	17.9	23.4	-	1.8	-	0.0
117.0	32.5	-	0.0	0.0	0.0	49.5	-	-	-	-	-	-
117.0	35.0	0.0	0.0	0.0	5.4	44.6	47.1	41.8	-	8.9	-	0.0
117.0	37.5	-	0.0	8.3	6.3	76.4	-	-	-	-	-	-
117.0	40.0	0.0	0.0	0.0	33.6	34.3	24.3	89.6	-	39.4	-	0.0
117.0	42.5	-	2.4	5.6	76.6	69.4	-	-	-	-	-	-
117.0	45.0	-	0.0	24.5	36.4	143.0	-	-	-	-	-	-
117.0	47.5	-	5.6	45.8	19.1	98.7	-	-	-	-	-	-
117.0	50.0	0.0	2.3	53.4	44.8	94.5	-	-	-	-	-	0.0
117.0	55.0	0.0	2.7	46.5	111.3	38.2	-	-	-	-	-	0.0
117.0	60.0	0.0	0.0	46.1	617.2	13.7	-	-	-	-	-	0.0

TABLE 4. (cont.)

Triphoturus mexicanus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	70.0	-	-	124.2	39.9	64.8	-	-	-	-	-	-
120.0	30.0	0.0	0.0	0.0	0.0	0.0	3.8	9.9	-	12.8	-	0.0
120.0	32.5	-	0.0	0.0	5.2	0.0	-	-	-	-	-	-
120.0	35.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	-	5.2	-	0.0
120.0	40.0	-	0.0	0.0	0.0	0.0	-	-	-	-	-	0.0
120.0	42.5	-	6.2	0.0	0.0	22.2	-	-	-	-	-	-
120.0	45.0	0.0	0.0	0.0	3.0	45.2	0.0	14.6	-	51.8	-	0.0
120.0	47.5	-	19.9	0.0	0.0	85.1	-	-	-	-	-	-
120.0	50.0	2.7	9.3	0.0	0.0	123.4	0.0	85.2	-	31.5	-	0.0
120.0	55.0	-	3.0	105.0	38.5	524.5	-	-	-	-	-	-
120.0	60.0	0.0	0.0	125.8	93.2	92.7	25.7	31.9	-	40.4	-	2.3
120.0	70.0	0.0	18.1	118.8	63.6	12.8	9.1	220.5	-	88.1	-	3.0
120.0	80.0	7.7	2.9	-	81.4	51.8	57.6	470.2	-	16.6	-	0.0
120.0	90.0	-	10.4	-	38.6	51.8	23.8	69.1	-	11.7	-	0.0
123.0	37.0	2.3	0.0	0.0	0.0	0.0	10.2	0.0	-	0.0	-	0.0
123.0	40.0	0.0	39.9	14.7	20.5	4.3	34.1	10.0	-	65.0	-	2.4
123.0	42.5	-	5.5	138.6	12.7	47.0	-	-	-	-	-	-
123.0	45.0	-	7.7	0.0	2.6	112.7	77.2	151.5	-	65.8	-	0.0
123.0	47.5	-	75.6	15.4	160.7	23.3	-	-	-	-	-	-
123.0	50.0	0.0	12.0	96.9	69.3	8.0	48.0	163.7	-	22.7	-	0.0
123.0	55.0	-	20.2	21.5	113.4	30.5	-	-	-	21.2	-	0.0
123.0	60.0	3.6	16.2	160.2	94.7	51.8	-	-	-	-	-	-
127.0	34.0	0.0	26.9	0.0	11.8	3.0	17.7	0.0	-	-	-	0.0
127.0	37.0	-	28.4	68.3	60.1	0.0	-	-	-	-	-	-
127.0	40.0	0.0	58.5	7.4	26.4	-	2.9	2.8	-	57.5	-	0.0
127.0	42.5	-	24.1	12.6	51.3	6.5	-	-	-	-	-	-
127.0	45.0	-	5.8	17.1	28.2	70.6	6.6	115.1	-	5.9	-	0.0
127.0	47.5	-	0.0	6.5	34.6	31.6	66.7	144.6	-	31.6	-	0.0
127.0	50.0	3.4	9.3	19.7	15.9	2.3	-	-	-	12.6	-	0.0
127.0	55.0	-	11.7	78.1	13.9	23.5	-	-	-	-	-	-
127.0	60.0	0.0	13.4	50.7	42.9	45.1	-	-	-	-	-	-
130.0	30.0	0.0	0.0	89.3	0.0	2.2	0.0	0.0	-	0.0	-	0.0
130.0	35.0	0.0	61.0	116.9	0.0	9.6	18.6	54.0	-	0.0	-	0.0
130.0	40.0	3.4	5.7	47.8	18.6	8.4	22.8	18.6	-	15.6	-	0.0
130.0	45.0	-	5.0	15.8	9.3	46.3	77.7	13.7	-	36.1	-	-
130.0	50.0	0.0	12.6	33.7	32.9	17.2	73.9	90.3	-	98.6	-	0.0
130.0	55.0	-	8.0	14.0	89.1	16.4	-	-	-	80.9	-	-
130.0	60.0	0.0	31.8	18.6	136.8	10.9	3.3	109.6	-	79.4	-	0.0
133.0	25.0	0.0	0.0	5.6	0.0	0.0	0.0	2.6	-	0.0	-	0.0
133.0	30.0	0.0	11.4	2.7	12.1	0.0	2.9	3.2	-	1.9	-	0.0
133.0	35.0	-	13.8	39.1	6.2	0.0	17.1	9.9	-	-	-	-
133.0	40.0	0.0	0.0	24.1	6.1	43.5	80.4	17.3	-	-	-	-
133.0	45.0	-	3.0	2.8	0.0	34.3	-	-	-	-	-	-
133.0	50.0	0.0	10.1	20.4	14.0	50.5	-	-	-	-	-	-
133.0	60.0	-	-	27.0	6.5	-	-	-	-	-	-	-
137.0	30.0	5.9	30.5	10.4	0.0	0.0	0.0	16.4	-	11.7	-	0.0

TABLE 4. (cont.)

Triphoturus mexicanus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0	35.0	-	0.0	162.8	0.0	36.2	-	-	-	-	-	-
137.0	40.0	0.0	0.0	14.0	0.0	34.4	-	-	-	-	-	-
137.0	45.0	-	15.4	32.0	6.4	20.5	-	-	-	-	-	-
137.0	50.0	0.0	8.4	49.3	3.3	28.8	-	-	-	-	-	-
137.0	60.0	-	-	22.9	0.0	-	-	-	-	-	-	-
137.0	140.0	3.0	-	-	-	-	-	-	-	-	-	-
140.0	30.0	0.0	-	-	-	-	-	-	-	-	-	2.1
140.0	40.0	0.0	-	-	-	-	-	-	-	-	-	2.8
140.0	50.0	6.1	-	-	-	-	-	-	-	-	-	-
143.0	35.0	14.6	-	-	-	-	-	-	-	-	-	0.0
150.0	50.0	2.7	-	-	-	-	-	-	-	-	-	-
157.0	10.0	-	-	-	-	-	-	-	-	-	-	6.3

Diogenichthys atlanticus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	70.0	-	-	0.0	0.0	0.0	2.2	-	0.0	-	-	-
70.0	90.0	-	-	0.0	2.7	0.0	-	-	-	-	-	-
87.0	70.0	-	-	2.4	0.0	-	-	-	-	-	-	-
87.0	90.0	-	-	0.0	2.8	0.0	-	-	-	-	-	-
90.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	80.0	2.7	-	0.0	0.0	3.4	-	-	-	-	-	-
93.0	55.0	-	-	0.0	7.9	0.0	-	-	-	0.0	-	-
93.0	60.0	0.0	-	0.0	0.0	6.6	-	-	-	-	-	-
93.0	90.0	-	-	0.0	4.5	-	-	-	-	-	-	-
97.0	45.0	-	-	0.0	7.9	0.0	0.0	-	0.0	0.0	-	-
97.0	55.0	-	-	0.0	0.0	8.2	-	-	-	0.0	-	-
97.0	60.0	0.0	0.0	0.0	0.0	5.2	-	-	-	-	-	-
97.0	80.0	-	0.0	0.0	2.9	0.0	-	-	-	-	-	-
97.0	90.0	-	-	5.6	5.5	2.6	-	-	-	-	-	-
100.0	30.0	0.0	0.0	0.0	0.0	0.0	2.4	-	0.0	0.0	-	0.0
100.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	3.0	-	0.0
100.0	50.0	0.0	4.9	3.0	3.2	0.0	0.0	-	0.0	0.0	-	-
100.0	55.0	-	0.0	0.0	7.5	2.8	-	-	5.4	0.0	-	-
100.0	60.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	-	0.0	-	0.0
100.0	70.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	-	2.9	-	0.0
100.0	80.0	1.8	0.0	3.2	26.1	0.0	0.0	3.0	-	0.0	-	-
100.0	90.0	0.0	0.0	2.9	16.9	0.0	0.0	-	-	0.0	-	0.0
103.0	45.0	-	0.0	8.8	0.0	0.0	-	-	-	-	-	-
103.0	50.0	0.0	0.0	9.1	0.0	3.1	-	-	-	-	-	-
103.0	55.0	-	0.0	3.9	0.0	6.0	-	-	-	-	-	-
103.0	60.0	0.0	0.0	0.0	2.8	0.0	-	-	-	-	-	-
103.0	70.0	3.3	0.0	0.0	16.1	0.0	-	-	-	-	-	-
103.0	80.0	-	-	6.0	13.7	0.0	-	-	-	-	-	-
107.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	3.4

TABLE 4. (cont.)

Diogenichthys atlanticus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	40.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	-	0.0	-	3.4
107.0	45.0	0.0	2.4	3.3	0.0	3.1	-	-	-	-	-	-
107.0	50.0	0.0	0.0	3.6	3.3	2.9	-	-	-	-	-	-
107.0	55.0	-	1.7	0.0	0.0	3.1	-	-	-	-	-	-
107.0	60.0	0.0	0.0	0.0	3.3	24.0	-	-	-	-	-	-
107.0	70.0	-	-	0.0	20.9	0.0	-	-	-	-	-	-
110.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.6	-	0.0
110.0	45.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	-	0.0	-	-
110.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	0.0	-	0.0
110.0	60.0	0.0	0.0	0.0	0.0	2.7	0.0	5.9	-	0.0	-	0.0
110.0	80.0	0.0	2.3	0.0	0.0	0.0	-	-	-	-	-	-
110.0	90.0	0.0	-	0.0	2.8	-	-	-	-	-	-	-
113.0	35.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	42.5	-	11.4	0.0	0.0	0.0	-	-	-	-	-	-
113.0	55.0	-	3.4	0.0	0.0	0.0	-	-	-	-	-	-
113.0	60.0	-	10.4	0.0	0.0	0.0	-	-	-	-	-	0.0
117.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.6	-	0.0
117.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
117.0	40.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	-	0.0	-	0.0
117.0	42.5	-	0.0	2.8	0.0	2.9	-	-	-	-	-	-
117.0	47.5	-	5.6	0.0	0.0	0.0	-	-	-	-	-	-
117.0	55.0	-	5.5	0.0	0.0	0.0	-	-	-	-	-	3.1
117.0	60.0	-	11.0	0.0	0.0	0.0	0.0	5.7	-	0.0	-	0.0
120.0	80.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	2.9	-	0.0
120.0	90.0	-	0.0	-	-	-	-	-	-	0.0	-	0.0
120.0	120.0	3.2	-	-	-	-	-	-	-	0.0	-	0.0
127.0	55.0	-	0.0	3.5	0.0	0.0	-	-	-	0.0	-	0.0
130.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0

Diogenichthys laternatus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	90.0	-	-	0.0	5.6	0.0	-	-	-	-	-	-
93.0	60.0	3.8	-	0.0	0.0	0.0	-	-	-	-	-	-
97.0	45.0	-	-	0.0	2.6	0.0	0.0	-	0.0	0.0	-	-
97.0	50.0	0.0	0.0	0.0	0.0	2.9	0.0	-	0.0	0.0	-	0.0
100.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	-	0.0	-	0.0
100.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.9	-	0.0
100.0	80.0	0.0	0.0	0.0	0.0	6.1	0.0	-	-	9.1	-	0.0
100.0	90.0	2.5	4.6	0.0	10.1	2.3	-	-	-	0.0	-	0.0
103.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	-	0.0	-	0.0
103.0	50.0	0.0	0.0	0.0	4.7	3.1	-	-	-	-	-	-
103.0	60.0	0.0	0.0	2.9	0.0	2.7	-	-	-	-	-	-
107.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	-	0.0	-	0.0
107.0	45.0	-	2.4	0.0	0.0	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

Diogenichthys laternatus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	55.0	-	0.0	3.4	0.0	6.1	-	-	-	-	-	-
110.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	-	5.5	-	0.0
110.0	35.0	0.0	0.0	0.0	0.0	0.0	29.2	18.8	-	0.0	-	8.3
110.0	40.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	-	7.0	-	0.0
110.0	45.0	0.0	0.0	0.0	0.0	3.0	10.1	3.2	-	0.0	-	-
110.0	50.0	0.0	0.0	0.0	8.6	21.2	3.5	9.3	-	0.0	-	0.0
110.0	55.0	-	0.0	0.0	6.7	2.5	-	-	-	0.0	-	-
110.0	60.0	2.1	0.0	28.9	14.0	13.7	0.0	11.8	-	0.0	-	0.0
110.0	70.0	0.0	0.0	0.0	6.1	3.0	-	-	-	-	-	-
110.0	80.0	0.0	0.0	0.0	10.6	0.0	-	-	-	-	-	-
113.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	2.4
113.0	35.0	0.0	0.0	0.0	0.0	0.0	14.1	12.0	-	0.0	-	4.7
113.0	40.0	0.0	0.0	0.0	0.0	5.2	9.1	32.1	-	10.0	-	0.0
113.0	42.5	-	2.8	0.0	39.1	0.0	-	-	-	-	-	-
113.0	45.0	-	0.0	3.1	38.2	10.2	-	-	-	-	-	-
113.0	47.5	-	0.0	2.9	6.4	5.1	-	-	-	-	-	-
113.0	50.0	0.0	0.0	2.3	25.5	5.4	-	-	-	-	-	0.0
113.0	55.0	-	10.2	22.2	36.5	24.6	-	-	-	-	-	0.0
113.0	60.0	-	0.0	17.3	79.9	36.9	-	-	-	-	-	0.0
113.0	70.0	-	-	0.0	6.0	31.0	-	-	-	-	-	22.1
117.0	30.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	-	3.7	-	4.7
117.0	35.0	0.0	0.0	0.0	0.0	5.6	3.6	5.2	-	5.9	-	9.6
117.0	40.0	3.0	0.0	0.0	0.0	2.6	0.0	8.7	-	17.5	-	-
117.0	42.5	-	0.0	0.0	0.0	2.9	-	-	-	-	-	-
117.0	45.0	-	0.0	0.0	0.0	8.9	-	-	-	-	-	-
117.0	47.5	-	0.0	0.0	0.0	12.0	-	-	-	-	-	0.0
117.0	50.0	0.0	0.0	0.0	0.0	3.0	-	-	-	-	-	-
117.0	55.0	-	0.0	0.0	117.6	0.0	-	-	-	-	-	6.1
117.0	60.0	-	0.0	7.1	250.3	0.0	-	-	-	-	-	-
117.0	70.0	-	-	6.1	0.0	0.0	-	-	-	-	-	0.0
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.6	-	0.0
120.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	1.0	-	0.0
120.0	40.0	-	0.0	0.0	0.0	0.0	-	-	-	-	-	6.0
120.0	45.0	0.0	0.0	0.0	0.0	8.0	0.0	128.1	-	23.0	-	0.0
120.0	47.5	-	0.0	0.0	0.0	23.9	0.0	-	-	-	-	-
120.0	50.0	0.0	0.0	0.0	0.0	2.9	0.0	17.0	-	3.9	-	0.0
120.0	60.0	2.9	0.0	0.0	32.9	0.0	25.7	3.2	-	7.3	-	2.3
120.0	70.0	6.0	0.0	29.7	6.4	0.0	0.0	11.9	-	8.0	-	17.7
120.0	80.0	5.1	21.4	-	0.0	3.0	0.0	11.4	-	6.6	-	3.0
120.0	90.0	-	-	-	17.5	19.4	3.0	8.6	-	35.2	-	2.8
123.0	37.0	9.4	0.0	6.0	0.0	6.4	5.1	2.7	-	0.0	-	14.3
123.0	40.0	6.2	5.7	0.0	0.0	30.1	19.9	13.3	-	39.0	-	-
123.0	42.0	-	-	-	-	-	-	-	-	-	-	-
123.0	42.5	-	0.0	0.0	0.0	7.8	17.2	39.4	-	17.2	-	3.0
123.0	45.0	-	5.1	0.0	0.0	40.7	-	-	-	-	-	-
123.0	47.5	-	30.8	0.0	0.0	2.9	-	-	-	-	-	-

TABLE 4. (cont.)

Diogenichthys laternatus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0	50.0	2.7	2.2	36.0	0.0	10.7	6.4	53.4	-	25.9	-	31.6
123.0	55.0	-	-	31.4	0.0	45.8	-	-	-	9.1	-	7.1
123.0	60.0	18.0	-	4.6	0.0	17.3	-	-	-	-	-	-
127.0	34.0	0.0	0.0	6.0	0.0	0.0	4.4	0.0	-	-	-	0.0
127.0	37.0	-	31.2	0.0	14.3	0.0	-	-	-	-	-	-
127.0	40.0	6.1	0.0	26.6	0.0	-	0.0	28.3	-	57.5	-	14.8
127.0	42.5	-	12.2	0.0	0.0	3.2	3.3	26.6	-	8.8	-	2.8
127.0	45.0	-	-	5.8	9.4	29.4	-	-	-	-	-	-
127.0	47.5	-	38.5	0.0	28.8	23.0	40.6	19.5	-	19.0	-	13.9
127.0	50.0	16.9	6.2	2.8	12.7	13.9	-	-	-	12.6	-	86.7
127.0	55.0	-	8.8	7.1	19.5	47.0	-	-	-	-	-	-
127.0	60.0	68.2	2.7	37.2	9.9	29.2	-	-	-	-	-	0.0
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	17.4
130.0	35.0	11.1	30.5	3.8	0.0	3.2	20.7	10.8	-	3.2	-	6.1
130.0	40.0	6.8	22.7	0.0	0.0	8.4	8.6	4.7	-	31.2	-	-
130.0	45.0	-	24.9	6.3	6.2	40.2	13.4	13.7	-	90.3	-	36.5
130.0	50.0	18.6	20.2	6.1	20.9	5.7	12.3	21.7	-	61.6	-	-
130.0	55.0	-	58.3	17.5	20.8	13.7	-	-	-	20.2	-	34.3
130.0	60.0	35.2	68.1	0.0	17.1	0.0	9.8	15.7	-	86.9	-	-
130.0	110.0	18.5	-	-	-	-	-	-	-	-	-	2.3
133.0	25.0	0.0	0.0	0.0	0.0	0.0	5.6	18.3	-	0.0	-	8.3
133.0	30.0	3.4	9.1	8.0	0.0	0.0	23.0	6.4	-	1.9	-	-
133.0	35.0	-	8.3	87.3	0.0	0.0	10.3	0.0	-	-	-	-
133.0	40.0	12.6	2.7	3.0	0.0	43.5	51.7	8.6	-	-	-	-
133.0	45.0	-	3.0	27.8	0.0	11.4	-	-	-	-	-	-
133.0	50.0	3.3	22.8	14.6	0.0	18.6	-	-	-	-	-	-
133.0	60.0	-	-	0.0	9.8	-	-	-	-	-	-	3.7
137.0	23.0	0.0	6.7	0.0	0.0	0.0	0.0	2.8	-	0.0	-	89.3
137.0	30.0	23.8	105.3	55.7	3.3	0.0	0.0	2.7	-	17.6	-	-
137.0	35.0	-	16.4	42.5	0.0	19.7	-	-	-	-	-	-
137.0	40.0	12.4	5.4	0.0	0.0	15.7	-	-	-	-	-	-
137.0	45.0	-	12.8	8.7	9.6	17.6	-	-	-	-	-	-
137.0	50.0	8.3	44.6	31.9	0.0	57.6	-	-	-	-	-	-
137.0	60.0	-	-	5.1	12.2	-	-	-	-	-	-	-
137.0	140.0	6.1	-	-	-	-	-	-	-	-	-	2.1
140.0	30.0	0.0	-	-	-	-	-	-	-	-	-	18.9
140.0	35.0	18.3	-	-	-	-	-	-	-	-	-	-
140.0	50.0	58.1	-	-	-	-	-	-	-	-	-	0.0
140.0	110.0	25.3	-	-	-	-	-	-	-	-	-	0.0
143.0	30.0	3.2	-	-	-	-	-	-	-	-	-	2.1
143.0	35.0	35.0	-	-	-	-	-	-	-	-	-	14.7
147.0	20.0	11.2	-	-	-	-	-	-	-	-	-	10.6
147.0	25.0	24.6	-	-	-	-	-	-	-	-	-	-
147.0	30.0	21.8	-	-	-	-	-	-	-	-	-	-
147.0	90.0	9.5	-	-	-	-	-	-	-	-	-	11.6
150.0	19.0	54.0	-	-	-	-	-	-	-	-	-	-

TABLE 4. (cont.)

Diogenichthys laternatus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
150.0	25.0	47.0	-	-	-	-	-	-	-	-	-	2.4
150.0	30.0	18.7	-	-	-	-	-	-	-	-	-	0.0
150.0	40.0	16.7	-	-	-	-	-	-	-	-	-	-
150.0	50.0	32.3	-	-	-	-	-	-	-	-	-	-
153.0	16.0	-	-	-	-	-	-	-	-	-	-	2.9
157.0	20.0	-	-	-	-	-	-	-	-	-	-	22.6
157.0	30.0	-	-	-	-	-	-	-	-	-	-	19.0

Gonichthys tenuiculus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	45.0	0.0	0.0	0.0	0.0	0.0	3.2	-	0.0	0.0	-	0.0
107.0	45.0	0.0	0.0	3.3	0.0	0.0	-	-	-	-	-	-
110.0	70.0	0.0	0.0	7.2	0.0	0.0	-	-	-	-	-	-
113.0	45.0	0.0	0.0	0.0	0.0	2.6	-	-	-	-	-	-
113.0	55.0	-	0.0	0.0	11.2	0.0	-	-	-	-	-	0.0
113.0	60.0	-	0.0	0.0	5.9	0.0	-	-	-	-	-	-
117.0	47.5	-	0.0	0.0	0.0	3.0	-	-	-	-	-	-
117.0	55.0	-	0.0	0.0	2.1	0.0	-	-	-	-	-	0.0
117.0	60.0	-	0.0	0.0	4.9	0.0	-	-	-	-	-	0.0
120.0	45.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	-	0.0	-	0.0
120.0	47.5	-	2.8	0.0	0.0	0.0	-	-	-	-	-	-
120.0	55.0	-	2.5	0.0	0.0	0.0	-	-	-	-	-	-
120.0	80.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	-	6.0
123.0	45.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	-	0.0	-	0.0
127.0	45.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	-	0.0	-	0.0
127.0	47.5	-	0.0	0.0	0.0	2.9	-	-	-	-	-	0.0
127.0	50.0	0.0	0.0	0.0	3.2	0.0	0.0	2.8	-	3.2	-	-
127.0	60.0	-	0.0	0.0	3.3	0.0	-	-	-	-	-	-
130.0	45.0	0.0	0.0	0.0	0.0	3.1	2.7	0.0	-	0.0	-	-
130.0	50.0	-	0.0	0.0	0.0	0.0	0.0	0.0	-	3.1	-	0.0
130.0	55.0	0.0	4.0	7.0	0.0	0.0	-	-	-	6.7	-	0.0
133.0	30.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	-	0.0	-	-
133.0	35.0	4.9	2.8	0.0	0.0	0.0	0.0	0.0	-	-	-	-
133.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
133.0	45.0	-	5.9	0.0	0.0	0.0	-	-	-	-	-	-
133.0	50.0	-	5.1	0.0	0.0	0.0	-	-	-	-	-	0.0
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.9	-	-
137.0	35.0	-	0.0	0.0	0.0	3.3	-	-	-	-	-	-
137.0	40.0	3.1	0.0	0.0	0.0	0.0	-	-	-	-	-	-
137.0	45.0	-	5.1	2.9	0.0	0.0	-	-	-	-	-	-
137.0	50.0	0.0	0.0	0.0	3.3	0.0	-	-	-	-	-	-
137.0	60.0	-	0.0	2.5	2.4	-	-	-	-	-	-	-
137.0	140.0	6.1	-	-	-	-	-	-	-	-	-	-
143.0	35.0	2.9	-	-	-	-	-	-	-	-	-	0.0

TABLE 4. (cont.)

Gonichthys tenuiculus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
147.0 20.0	2.8	-	-	-	-	-	-	-	-	-	-	0.0
153.0 16.0	-	-	-	-	-	-	-	-	-	-	-	5.8

<i>Hygophum</i> spp.												
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0 50.0	0.0	0.0	0.0	0.0	7.1	0.0	-	-	-	-	-	-
103.0 60.0	0.0	0.0	0.0	0.0	2.8	0.0	-	-	-	-	-	-
120.0 60.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	-	0.0	-	0.0
123.0 45.0	-	0.0	0.0	0.0	0.0	0.0	2.9	3.0	-	0.0	-	0.0
123.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	-	0.0	-	0.0
130.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	5.4	-	0.0	-	0.0
130.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	-	0.0	-	0.0
157.0 30.0	-	-	-	-	-	-	-	-	-	-	-	8.2

Hygophum atratum

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0 80.0	-	-	-	0.0	4.1	-	-	-	-	-	-	-
110.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	0.0	-	0.0
113.0 50.0	0.0	0.0	0.0	0.0	2.8	2.7	-	-	-	-	-	0.0
113.0 55.0	-	-	0.0	0.0	5.6	0.0	-	-	-	-	-	-
117.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	-	0.0	-	0.0
120.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	2.9
120.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	-	0.0	-	0.0
120.0 90.0	-	-	0.0	-	0.0	0.0	0.0	0.0	-	2.9	-	0.0
123.0 45.0	-	3.0	0.0	0.0	0.0	12.5	0.0	0.0	-	0.0	-	0.0
127.0 37.0	-	-	2.8	0.0	0.0	0.0	-	-	-	-	-	0.0
127.0 45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	5.9	-	0.0	-	0.0
127.0 50.0	0.0	0.0	0.0	0.0	5.8	0.0	-	-	-	-	-	0.0
130.0 45.0	-	0.0	0.0	0.0	3.2	0.0	0.0	5.6	-	0.0	-	0.0
130.0 55.0	-	0.0	0.0	0.0	0.0	3.1	0.0	3.4	-	0.0	-	-
130.0 60.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0 30.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0 40.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0 60.0	-	-	-	3.4	0.0	-	-	-	-	-	-	-
137.0 40.0	3.1	-	0.0	0.0	0.0	0.0	-	-	-	-	-	-
137.0 50.0	5.5	-	0.0	0.0	0.0	0.0	-	-	-	-	-	-
137.0 60.0	-	-	-	2.5	0.0	-	-	-	-	-	-	-
137.0 140.0	6.1	-	-	-	-	-	-	-	-	-	-	-
140.0 50.0	3.1	-	-	-	-	-	-	-	-	-	-	-
140.0 110.0	6.3	-	-	-	-	-	-	-	-	-	-	-
143.0 30.0	3.2	-	-	-	-	-	-	-	-	-	-	0.0

TABLE 4. (cont.)

Hygophum atratum (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
143.0	35.0	-	-	-	-	-	-	-	-	-	-	0.0
147.0	30.0	-	-	-	-	-	-	-	-	-	-	0.0
147.0	90.0	-	-	-	-	-	-	-	-	-	-	-
150.0	40.0	-	-	-	-	-	-	-	-	-	-	-
150.0	50.0	-	-	-	-	-	-	-	-	-	-	-
157.0	20.0	-	-	-	-	-	-	-	-	-	-	11.3

Hygophum reinhardtii

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	80.0	0.0	-	0.0	3.5	0.0	-	-	-	-	-	-
100.0	90.0	-	0.0	14.6	0.0	0.0	-	-	-	0.0	-	0.0
103.0	55.0	-	0.0	0.0	0.0	6.0	-	-	-	-	-	-
117.0	60.0	0.0	2.2	0.0	0.0	0.0	-	-	-	-	-	0.0
120.0	90.0	-	0.0	-	0.0	0.0	0.0	8.6	-	0.0	-	0.0

Loweina rara

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	70.0	0.0	5.4	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0
80.0	80.0	0.0	0.0	0.0	0.0	0.0	2.6	-	0.0	0.0	-	0.0
80.0	90.0	-	2.1	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	2.9	-	0.0
90.0	37.0	0.0	0.0	0.0	2.9	0.0	0.0	-	0.0	0.0	-	0.0
97.0	70.0	-	0.0	0.0	0.0	2.7	-	-	-	-	-	-
100.0	80.0	0.0	0.0	0.0	3.3	0.0	0.0	-	-	0.0	-	-
100.0	100.0	-	-	3.0	0.0	-	-	-	-	-	-	-
113.0	55.0	-	0.0	3.2	0.0	0.0	-	-	-	-	-	-
113.0	60.0	0.0	3.5	0.0	0.0	0.0	-	-	-	-	-	0.0
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	5.8	-	0.0
120.0	60.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	-	0.0	-	0.0
120.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	90.0	-	0.0	3.0	0.0	0.0	0.0	0.0	-	2.9	-	0.0
123.0	47.5	-	0.0	0.0	0.0	2.9	-	-	-	-	-	-
127.0	45.0	0.0	0.0	0.0	3.1	2.9	0.0	0.0	-	0.0	-	0.0
127.0	47.5	-	0.0	0.0	2.9	0.0	-	2.8	-	-	-	-
127.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
127.0	55.0	-	2.9	0.0	0.0	0.0	-	-	-	0.0	-	-
127.0	60.0	0.0	0.0	0.0	3.3	0.0	-	-	-	-	-	-
130.0	45.0	-	0.0	0.0	0.0	3.1	0.0	0.0	-	0.0	-	0.0
130.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	-
133.0	60.0	-	4.5	0.0	0.0	-	-	0.0	-	-	-	-
137.0	35.0	-	-	3.4	0.0	0.0	-	-	-	-	-	-
137.0	45.0	-	5.5	0.0	0.0	0.0	-	-	-	-	-	-
		-	7.7	0.0	0.0	-	-	-	-	-	-	-

TABLE 4. (cont.)

Loweina rara (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0 50.0	0.0	-	5.6	0.0	0.0	2.6	-	-	-	-	-	-
150.0 25.0	6.7	-	-	-	-	-	-	-	-	-	-	0.0

Myctophum aurolaternatum

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
150.0 50.0	21.5	-	-	-	-	-	-	-	-	-	-	-

Myctophum nitidulum

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0 50.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	-	0.0	0.0	-	0.0
97.0 90.0	-	-	-	2.8	0.0	0.0	-	-	-	-	-	-
100.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	-	0.0	0.0	-	-
100.0 90.0	0.0	-	0.0	0.0	0.0	0.0	-	-	-	3.0	-	0.0
100.0 100.0	-	-	-	0.0	3.4	-	-	-	-	-	-	-
103.0 70.0	-	-	-	0.0	0.0	2.9	-	-	-	-	-	-
107.0 55.0	-	-	0.0	0.0	2.9	0.0	-	-	-	-	-	-
110.0 80.0	0.0	-	4.7	0.0	0.0	0.0	-	-	-	-	-	-
117.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.0	-	0.0
120.0 70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	-	0.0	-	0.0
120.0 90.0	-	-	0.0	-	0.0	0.0	0.0	0.0	-	2.9	-	0.0

Protomyctophum crockeri

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
53.0 65.0	-	-	-	-	-	2.5	-	-	-	-	-	-
60.0 80.0	-	-	-	0.0	34.9	0.0	0.0	-	5.5	-	-	-
60.0 90.0	-	-	-	0.0	0.0	0.0	0.0	-	2.6	-	-	-
60.0 100.0	-	-	-	-	-	3.1	2.3	-	0.0	-	-	-
67.0 55.0	-	-	-	0.0	0.0	12.0	0.0	0.0	-	-	-	-
70.0 52.0	-	-	-	-	-	11.2	12.0	-	0.0	-	-	-
70.0 70.0	-	-	-	11.0	0.0	6.2	2.2	-	0.0	-	-	-
70.0 80.0	-	-	-	-	2.7	3.2	0.0	-	5.1	-	-	-
70.0 90.0	-	-	-	4.6	0.0	0.0	-	-	-	-	-	-
77.0 55.0	2.5	0.0	0.0	0.0	5.6	0.0	0.0	-	0.0	0.0	-	-
80.0 55.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0 60.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	-	5.9	0.0	-	3.2
80.0 70.0	0.0	10.3	0.0	0.0	0.0	-	0.0	-	0.0	3.7	-	5.2
80.0 80.0	0.0	3.0	0.0	0.0	5.2	0.0	0.0	-	2.8	6.3	-	0.0
80.0 90.0	2.7	-	0.0	2.5	0.0	0.0	5.2	-	8.4	0.0	-	0.0
80.0 100.0	0.0	-	-	-	-	0.0	-	-	6.0	-	-	-
80.0 110.0	2.8	-	-	-	-	-	-	-	-	-	-	-

TABLE 4. (cont.)

Protomyctophum crockeri (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	3.0
83.0	60.0	0.0	11.0	2.9	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	80.0	-	-	6.8	2.8	2.6	-	-	-	-	-	-
85.0	39.0	0.0	2.4	0.0	0.0	0.0	-	-	0.0	0.0	-	0.0
85.0	55.0	3.4	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	3.0
85.0	60.0	3.3	0.0	0.0	0.0	0.0	7.1	-	3.2	3.1	-	2.8
87.0	35.0	2.7	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	-	5.0	0.0	-	0.0
87.0	55.0	12.0	0.0	3.1	0.0	0.0	0.0	-	0.0	0.0	-	3.2
87.0	60.0	2.7	0.0	10.4	0.0	0.0	0.0	-	7.4	0.0	-	0.0
87.0	80.0	-	-	0.0	0.0	0.0	0.0	-	-	0.0	-	3.3
90.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.7	0.0	-	0.0
90.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	3.3
90.0	50.0	-	-	0.0	0.0	0.0	0.0	-	3.0	0.0	-	-
90.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.7	0.0	-	2.9
90.0	60.0	4.6	2.3	0.0	3.1	0.0	0.0	-	0.0	3.1	-	3.2
90.0	70.0	2.7	-	0.0	0.0	0.0	0.0	-	-	-	-	-
90.0	80.0	0.0	-	0.0	0.0	3.4	0.0	-	-	-	-	-
93.0	45.0	0.0	-	0.0	0.0	0.0	0.0	-	2.2	0.0	-	0.0
93.0	50.0	0.0	-	0.0	2.6	0.0	8.5	-	0.0	0.0	-	-
93.0	55.0	15.1	-	0.0	5.1	13.3	-	-	-	12.9	-	-
93.0	60.0	0.0	-	0.0	2.3	-	-	-	-	-	-	-
97.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	3.7	-	0.0
97.0	40.0	0.0	0.0	0.0	2.8	0.0	0.0	-	0.0	3.4	-	0.0
97.0	45.0	0.0	0.0	0.0	15.8	0.0	0.0	-	0.0	0.0	-	-
97.0	50.0	5.6	0.0	3.3	5.4	2.9	0.0	-	0.0	12.5	-	0.0
97.0	55.0	0.0	0.0	0.0	0.0	2.7	-	-	-	0.0	-	-
97.0	60.0	0.0	0.0	0.0	0.0	10.3	-	-	-	-	-	-
97.0	70.0	-	0.0	0.0	3.2	2.7	-	-	-	-	-	-
97.0	80.0	-	-	3.1	2.9	0.0	-	-	-	-	-	-
97.0	90.0	0.0	0.0	2.8	16.6	0.0	-	-	-	-	-	-
100.0	30.0	0.0	0.0	0.0	2.9	0.0	2.4	-	2.9	3.1	-	3.0
100.0	35.0	-	0.0	2.9	2.6	2.9	2.8	-	3.2	-	-	-
100.0	40.0	0.0	0.0	0.0	0.0	24.6	2.8	-	0.0	9.1	-	0.0
100.0	45.0	-	5.3	0.0	0.0	9.1	0.0	-	0.0	0.0	-	-
100.0	50.0	1.5	0.0	0.0	9.5	0.0	23.4	-	16.1	0.0	-	3.3
100.0	60.0	2.4	0.0	0.0	0.0	2.5	0.0	2.9	-	0.0	-	3.7
100.0	70.0	0.0	4.5	0.0	13.9	0.0	0.0	0.0	-	8.7	-	-
100.0	80.0	1.8	0.0	0.0	6.5	3.0	0.0	-	-	3.0	-	-
100.0	90.0	0.0	2.3	0.0	3.4	2.3	-	-	-	0.0	-	3.7
100.0	100.0	-	-	8.9	0.0	-	-	-	-	-	-	-
103.0	35.0	0.0	0.0	0.0	0.0	5.8	0.0	3.0	-	4.6	-	6.2
103.0	40.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	3.1

TABLE 4. (cont.)

Protomyctophum crockeri (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0	45.0	6.1	0.0	8.8	2.6	5.9	-	-	-	-	-	-
103.0	50.0	0.0	4.9	12.2	7.1	12.6	-	-	-	-	-	-
103.0	55.0	-	0.0	23.3	0.0	12.1	-	-	-	-	-	-
103.0	60.0	1.9	0.0	11.8	8.3	18.6	-	-	-	-	-	-
103.0	80.0	-	-	0.0	0.0	2.8	-	-	-	-	-	-
107.0	32.0	0.0	0.0	3.1	5.9	2.9	0.0	3.1	-	0.0	-	3.0
107.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	5.9	-	3.4
107.0	40.0	1.8	2.8	3.7	5.2	0.0	6.6	7.1	-	31.1	-	10.2
107.0	45.0	0.0	26.4	3.3	0.0	0.0	-	-	-	-	-	-
107.0	50.0	0.0	0.0	0.0	0.0	5.7	-	-	-	-	-	-
107.0	55.0	-	0.0	0.0	2.9	9.2	-	-	-	-	-	-
107.0	60.0	0.0	0.0	7.0	0.0	2.4	-	-	-	-	-	-
107.0	80.0	-	-	2.9	8.1	-	-	-	-	-	-	-
110.0	33.0	3.4	0.0	2.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	35.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0	-	0.0	-	0.0
110.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	-	7.0	-	0.0
110.0	45.0	0.0	12.0	0.0	0.0	6.1	0.0	0.0	-	2.7	-	0.0
110.0	50.0	5.0	12.9	0.0	0.0	0.0	0.0	6.2	-	5.7	-	0.0
110.0	55.0	-	9.5	0.0	10.1	0.0	-	-	-	5.4	-	0.0
110.0	60.0	0.0	0.0	0.0	7.0	8.2	0.0	0.0	-	0.0	-	0.0
110.0	70.0	0.0	8.2	4.8	0.0	0.0	-	-	-	-	-	-
110.0	80.0	-	0.0	6.4	14.2	0.0	-	-	-	-	-	-
110.0	90.0	-	-	2.8	13.9	-	-	-	-	-	-	-
113.0	35.0	0.0	1.4	0.0	2.0	0.0	0.0	2.4	-	0.0	-	0.0
113.0	37.5	-	5.1	3.3	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	40.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
113.0	42.5	-	0.0	7.1	0.0	0.0	-	-	-	-	-	-
113.0	45.0	-	2.8	6.1	0.0	0.0	-	-	-	-	-	-
113.0	47.5	-	0.0	5.8	6.4	15.4	-	-	-	-	-	-
113.0	50.0	3.3	0.0	0.0	0.0	0.0	-	-	-	-	-	0.0
113.0	55.0	-	47.6	3.2	0.0	3.1	-	-	-	-	-	0.0
113.0	60.0	0.0	51.9	3.5	0.0	0.0	-	-	-	-	-	0.0
113.0	70.0	-	-	0.0	0.0	2.8	-	-	-	-	-	-
117.0	30.0	0.0	0.0	0.0	2.3	2.5	0.0	0.0	-	0.0	-	0.0
117.0	32.5	-	0.0	0.0	0.0	2.9	0.0	0.0	-	-	-	-
117.0	35.0	0.0	0.0	0.0	0.0	5.6	3.6	0.0	-	0.0	-	2.4
117.0	37.5	-	0.0	5.6	0.0	0.0	-	-	-	-	-	-
117.0	40.0	3.0	0.0	0.0	0.0	0.0	0.0	2.9	-	0.0	-	0.0
117.0	42.5	-	0.0	0.0	0.0	0.0	-	-	-	-	-	-
117.0	45.0	-	2.1	0.0	3.8	0.0	-	-	-	-	-	-
117.0	47.5	-	0.0	8.6	2.4	0.0	-	-	-	-	-	0.0
117.0	50.0	0.0	0.0	2.8	0.0	0.0	-	-	-	-	-	-
117.0	55.0	-	0.0	0.0	6.3	0.0	-	-	-	-	-	6.1
117.0	60.0	-	4.4	0.0	9.7	0.0	-	-	-	-	-	0.0
120.0	30.0	0.0	0.0	10.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	45.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	-	-	-	-

TABLE 4. (cont.)

Protomyctophum crockeri (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	50.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	-	0.0	-	2.9
120.0	55.0	0.0	0.0	3.0	5.9	0.0	-	-	-	-	-	-
120.0	60.0	0.0	0.0	0.0	13.7	2.4	0.0	0.0	-	0.0	-	2.3
120.0	70.0	0.0	0.0	0.0	3.2	0.0	0.0	3.0	-	0.0	-	0.0
120.0	80.0	0.0	0.0	-	3.5	3.0	0.0	5.7	-	6.6	-	3.0
120.0	90.0	-	0.0	-	0.0	0.0	0.0	0.0	-	0.0	-	2.8
120.0	90.0	-	0.0	0.0	3.4	0.0	0.0	0.0	-	0.0	-	0.0
123.0	40.0	0.0	-	-	-	-	-	-	-	-	-	-
123.0	42.0	3.1	-	-	-	-	-	-	-	-	-	-
123.0	45.0	0.0	0.0	6.9	2.6	0.0	0.0	0.0	-	2.9	-	0.0
123.0	50.0	0.0	0.0	0.0	0.0	2.7	0.0	3.3	-	0.0	-	0.0
123.0	50.0	0.0	0.0	0.0	2.9	0.0	-	-	-	-	-	-
127.0	37.0	-	0.0	0.0	0.0	0.0	0.0	5.9	-	0.0	-	0.0
127.0	45.0	-	0.0	0.0	0.0	2.9	-	-	-	-	-	-
127.0	47.5	-	0.0	0.0	0.0	-	-	-	-	-	-	-
127.0	50.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	6.2	-	0.0
130.0	55.0	-	0.0	0.0	0.0	0.0	-	-	-	6.7	-	-
130.0	60.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
137.0	140.0	3.0	-	-	-	-	-	-	-	-	-	-

Symbolophorus californiensis

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	70.0	-	-	0.0	0.0	0.0	4.4	-	0.0	-	-	-
70.0	80.0	-	-	-	0.0	0.0	2.7	-	0.0	-	-	-
70.0	90.0	-	-	0.0	2.7	13.4	-	-	-	-	-	-
70.0	100.0	-	-	-	-	7.3	-	-	-	-	-	-
77.0	65.0	-	-	0.0	0.0	-	0.0	-	2.7	-	-	-
80.0	60.0	3.3	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0	70.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	3.7	-	0.0
80.0	90.0	2.7	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0	100.0	0.0	-	-	-	2.8	-	-	0.0	-	-	-
83.0	90.0	-	-	0.0	0.0	5.2	-	-	-	-	-	-
85.0	39.0	-	0.0	0.0	0.0	0.0	-	-	2.7	0.0	-	0.0
87.0	90.0	-	-	0.0	14.1	2.3	-	-	-	-	-	-
90.0	28.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	60.0	2.5	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	80.0	0.0	-	0.0	0.0	10.1	-	-	-	-	-	-
90.0	90.0	0.0	-	2.8	0.0	-	-	-	-	-	-	-
93.0	50.0	0.0	-	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
93.0	55.0	-	-	0.0	2.6	0.0	-	-	3.0	0.0	-	-
93.0	80.0	-	-	0.0	2.3	-	-	-	-	-	-	-
93.0	90.0	-	-	0.0	4.5	-	-	-	-	-	-	-
97.0	32.0	0.0	0.0	-	0.0	0.0	0.0	-	2.7	0.0	-	0.0
97.0	40.0	0.0	0.0	0.0	0.0	2.8	0.0	-	2.8	0.0	-	0.0
97.0	45.0	-	-	0.0	21.0	0.0	0.0	-	0.0	2.9	-	-

TABLE 4. (cont.)

Symbolophorus californiensis (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	4.2	-	0.0
97.0	55.0	-	-	0.0	2.6	16.3	-	-	-	0.0	-	-
97.0	60.0	0.0	0.0	0.0	0.0	2.6	-	-	-	-	-	-
97.0	70.0	-	13.8	0.0	0.0	0.0	-	-	-	-	-	-
97.0	90.0	-	-	16.9	11.1	2.6	-	-	-	-	-	-
100.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.9	0.0	-	0.0
100.0	40.0	2.4	0.0	0.0	0.0	0.0	0.0	-	5.9	0.0	-	0.0
100.0	45.0	-	0.0	0.0	0.0	0.0	0.0	-	17.8	0.0	-	-
100.0	50.0	0.0	0.0	0.0	3.7	5.7	0.0	-	13.5	0.0	-	-
100.0	55.0	-	0.0	0.0	0.0	8.3	-	-	-	0.0	-	-
100.0	60.0	0.0	0.0	3.0	0.0	44.6	2.9	17.5	-	0.0	-	0.0
100.0	70.0	0.0	4.5	0.0	0.0	0.0	3.1	3.0	-	2.9	-	0.0
100.0	80.0	1.8	0.0	6.4	9.8	3.0	5.7	-	-	0.0	-	0.0
100.0	90.0	0.0	7.0	5.8	80.9	16.4	-	-	-	0.0	-	0.0
103.0	35.0	0.0	0.0	0.0	0.0	0.0	11.2	0.0	-	0.0	-	0.0
103.0	40.0	0.0	0.0	3.3	0.0	0.0	0.0	3.0	-	0.0	-	0.0
103.0	45.0	0.0	0.0	38.1	0.0	0.0	-	-	-	-	-	-
103.0	50.0	3.1	0.0	6.1	2.4	0.0	-	-	-	-	-	-
103.0	55.0	-	0.0	19.4	5.8	15.1	-	-	-	-	-	-
103.0	60.0	0.0	0.0	8.8	22.0	21.3	-	-	-	-	-	-
103.0	70.0	-	-	12.0	5.4	2.9	-	-	-	-	-	-
103.0	80.0	-	-	22.6	0.0	2.8	-	-	-	-	-	-
107.0	32.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	-	0.0	-	0.0
107.0	40.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
107.0	50.0	-	7.3	0.0	13.3	2.9	-	-	-	-	-	-
107.0	55.0	-	1.7	0.0	8.6	85.7	-	-	-	-	-	-
107.0	60.0	0.0	0.0	7.0	16.8	19.2	-	-	-	-	-	-
107.0	70.0	-	-	0.0	3.5	0.0	-	-	-	-	-	-
107.0	80.0	-	-	11.8	0.0	-	-	-	-	-	-	-
110.0	33.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	-	0.0	-	0.0
110.0	35.0	0.0	0.0	0.0	3.1	0.0	2.9	0.0	-	0.0	-	0.0
110.0	40.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	-	0.0	-	0.0
110.0	45.0	-	0.0	0.0	7.0	15.2	0.0	0.0	-	0.0	-	0.0
110.0	50.0	2.5	3.2	0.0	0.0	9.1	0.0	6.2	-	2.7	-	0.0
110.0	55.0	-	0.0	3.0	0.0	0.0	0.0	-	-	0.0	-	0.0
110.0	60.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	-	0.0	-	0.0
110.0	70.0	0.0	2.7	2.4	0.0	0.0	-	-	-	-	-	-
110.0	80.0	-	14.0	3.2	0.0	0.0	-	-	-	-	-	-
110.0	90.0	0.0	-	11.4	5.6	-	0.0	-	-	-	-	-
113.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.6	-	0.0
113.0	37.5	-	2.5	3.3	0.0	0.0	-	-	-	3.3	-	0.0
113.0	40.0	2.5	6.3	0.0	0.0	2.6	0.0	0.0	-	-	-	-
113.0	45.0	-	0.0	3.1	0.0	0.0	-	-	-	-	-	-
113.0	47.5	-	5.6	0.0	0.0	0.0	-	-	-	-	-	-
113.0	50.0	0.0	0.0	2.3	0.0	0.0	-	-	-	-	-	0.0
113.0	70.0	-	-	3.6	3.0	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

Symbolophorus californiensis (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0 30.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	-	0.0	-	0.0
117.0 40.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	-	0.0	-	0.0
117.0 42.5	-	-	0.0	5.6	0.0	0.0	-	-	-	-	-	-
117.0 47.5	-	-	0.0	2.9	2.4	0.0	-	-	-	-	-	-
117.0 50.0	0.0	0.0	0.0	2.8	0.0	0.0	-	-	-	-	-	4.6
117.0 55.0	-	0.0	0.0	3.1	0.0	0.0	-	-	-	-	-	0.0
117.0 60.0	-	0.0	2.2	0.0	2.4	0.0	-	-	-	-	-	0.0
120.0 55.0	-	0.0	5.1	0.0	0.0	0.0	-	-	-	-	-	0.0
120.0 60.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	-	0.0	-	0.0
120.0 70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	-	0.0	-	0.0
120.0 80.0	0.0	0.0	0.0	-	0.0	0.0	0.0	2.8	-	0.0	-	0.0
123.0 47.5	-	-	0.0	3.9	0.0	0.0	-	-	-	-	-	0.0
123.0 50.0	2.7	0.0	0.0	7.2	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0 60.0	0.0	-	0.0	0.0	5.7	0.0	-	-	-	-	-	-
127.0 47.5	-	-	0.0	3.3	0.0	0.0	-	-	-	-	-	-
127.0 50.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0 40.0	0.0	0.0	0.0	3.1	2.7	0.0	0.0	0.0	-	0.0	-	0.0
130.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0 60.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	-	0.0	-	0.0

Tarletonbeania crenularis

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0 47.0	-	-	-	-	-	1.6	-	-	-	-	-	-
50.0 50.0	-	-	-	-	-	19.4	-	-	-	-	-	-
50.0 70.0	-	-	-	-	-	5.7	-	-	-	-	-	-
50.0 80.0	-	-	-	-	-	40.9	-	-	-	-	-	-
50.0 100.0	-	-	-	-	-	22.1	-	-	-	-	-	-
53.0 52.0	-	-	-	-	-	25.1	-	-	-	-	-	-
53.0 55.0	-	-	-	-	-	3.1	-	-	-	-	-	-
53.0 65.0	-	-	-	-	-	22.9	-	-	-	-	-	-
57.0 55.0	-	-	-	-	-	11.2	-	-	-	-	-	-
57.0 65.0	-	-	-	-	-	17.9	-	-	-	-	-	-
60.0 55.0	-	-	-	0.0	0.0	9.0	0.0	0.0	-	-	-	-
60.0 60.0	-	-	-	0.0	0.0	37.9	11.4	0.0	-	-	-	-
60.0 70.0	-	-	-	14.5	22.4	0.0	20.6	12.3	-	-	-	-
60.0 80.0	-	-	-	4.9	0.0	20.6	14.8	-	5.5	-	-	-
60.0 90.0	-	-	-	11.3	6.7	53.3	18.6	-	2.6	-	-	-
60.0 100.0	-	-	-	-	-	114.0	11.6	-	12.6	-	-	-
63.0 55.0	-	-	-	0.0	2.3	46.0	64.1	26.2	-	-	-	-
67.0 50.0	-	-	-	0.0	0.0	2.3	10.0	0.0	-	-	-	-
67.0 55.0	-	-	-	4.8	17.5	0.0	29.2	9.9	-	-	-	-
67.0 65.0	-	-	-	-	-	0.0	22.8	5.1	-	-	-	-
70.0 52.0	-	-	-	-	-	11.2	12.0	-	0.0	-	-	-
70.0 55.0	-	-	-	9.5	24.1	79.2	5.7	-	0.0	-	-	-

TABLE 4. (cont.)

Tarletonbeania crenularis (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	60.0	-	-	0.0	13.5	53.2	0.0	-	0.0	-	-	-
70.0	70.0	-	-	0.0	2.1	28.0	2.2	-	0.0	-	-	-
70.0	80.0	-	-	-	2.7	6.3	0.0	-	0.0	-	-	-
70.0	90.0	-	-	-	0.0	3.4	-	-	-	-	-	-
73.0	50.0	-	-	0.0	0.0	6.5	-	-	0.0	-	-	-
73.0	60.0	-	-	1.8	5.7	8.9	-	-	0.0	-	-	-
73.0	50.0	6.7	0.0	2.2	-	0.0	0.0	-	0.0	-	-	-
77.0	55.0	9.8	0.0	0.0	0.0	4.8	0.0	-	0.0	3.9	-	-
77.0	65.0	-	-	0.0	5.8	-	0.0	-	5.4	-	-	-
80.0	55.0	0.0	0.0	2.2	0.0	0.0	0.0	-	0.0	0.0	-	3.4
80.0	60.0	2.9	5.7	7.3	0.0	22.7	9.1	-	0.0	0.0	-	0.0
80.0	70.0	0.0	0.0	0.0	8.4	-	0.0	-	0.0	0.0	-	2.6
80.0	80.0	24.1	5.2	0.0	0.0	3.0	0.0	-	2.8	0.0	-	2.8
80.0	90.0	0.0	15.0	0.0	4.9	0.0	5.2	-	0.0	0.0	-	0.0
83.0	55.0	2.5	0.0	2.5	45.6	0.0	0.0	-	2.8	0.0	-	3.0
83.0	60.0	2.4	5.5	5.8	33.9	41.0	12.3	-	0.0	0.0	-	0.0
83.0	70.0	-	-	2.1	0.0	21.1	-	-	-	-	-	-
83.0	80.0	-	-	0.0	5.0	2.6	-	-	-	-	-	-
83.0	90.0	-	-	2.3	0.0	2.6	-	-	-	-	-	-
85.0	45.0	0.0	0.0	0.0	5.9	0.0	0.0	-	0.0	0.0	-	0.0
85.0	50.0	0.0	0.0	2.1	0.0	0.0	0.0	-	2.4	0.0	-	0.0
85.0	55.0	0.0	6.4	7.7	8.8	13.5	0.0	-	0.0	0.0	-	0.0
85.0	60.0	6.5	9.5	5.2	5.8	74.2	0.0	-	0.0	0.0	-	0.0
87.0	35.0	0.0	0.0	0.0	4.3	0.0	0.0	-	0.0	0.0	-	0.0
87.0	45.0	0.0	0.0	0.0	0.0	0.0	4.0	-	2.5	0.0	-	0.0
87.0	50.0	0.0	0.0	0.0	3.9	0.0	0.0	-	0.0	0.0	-	0.0
87.0	55.0	0.0	2.9	0.0	4.3	10.6	7.2	-	0.0	0.0	-	0.0
87.0	60.0	0.0	0.0	0.0	44.4	28.8	0.0	-	0.0	3.0	-	0.0
87.0	80.0	-	-	0.0	0.0	9.4	-	-	2.5	-	-	-
90.0	30.0	0.0	0.0	0.0	2.7	0.0	0.0	-	0.0	0.0	-	0.0
90.0	33.5	-	-	-	2.3	0.0	-	-	-	-	-	-
90.0	37.0	0.0	0.0	0.0	0.0	2.0	0.0	-	0.0	0.0	-	0.0
90.0	45.0	0.0	0.0	0.0	0.0	2.4	0.0	-	0.0	0.0	-	0.0
90.0	50.0	-	-	-	4.8	0.0	-	-	0.0	0.0	-	0.0
90.0	55.0	-	-	0.0	0.0	0.0	6.9	-	0.0	0.0	-	0.0
90.0	60.0	1.6	0.0	0.0	0.0	0.0	0.0	-	5.0	0.0	-	0.0
90.0	70.0	0.0	0.0	0.0	0.0	0.0	11.7	-	-	-	-	-
90.0	80.0	2.7	2.8	0.0	0.0	0.0	-	-	-	-	-	-
93.0	35.0	-	-	0.0	0.0	5.9	0.0	-	0.0	-	-	0.0
93.0	40.0	0.0	0.0	0.0	2.5	-	0.0	-	0.0	0.0	-	0.0
93.0	45.0	-	-	0.0	2.8	0.0	14.6	-	0.0	0.0	-	0.0
93.0	50.0	0.0	-	0.0	2.6	3.0	4.3	-	0.0	0.0	-	0.0
93.0	55.0	-	-	0.0	5.3	0.0	-	-	-	-	-	-
93.0	60.0	3.8	-	0.0	0.0	0.0	-	-	-	-	-	-
93.0	70.0	-	0.0	0.0	0.0	2.6	-	-	-	-	-	-
93.0	90.0	-	-	3.2	0.0	-	-	-	-	-	-	-

TABLE 4. (cont.)

Tarletonbeania crenularis (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0 40.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	-	0.0	0.0	-	0.0
97.0 50.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	-	0.0	0.0	-	0.0
97.0 70.0	-	-	6.9	0.0	0.0	0.0	-	-	0.0	-	-	-
100.0 35.0	-	-	0.0	5.8	0.0	0.0	0.0	-	0.0	-	-	-
100.0 50.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-
100.0 60.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
107.0 40.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
107.0 60.0	0.0	3.1	0.0	0.0	0.0	0.0	-	-	-	-	-	-
110.0 50.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0 60.0	-	2.9	0.0	0.0	0.0	0.0	-	-	-	-	-	0.0
117.0 60.0	-	3.0	0.0	0.0	0.0	0.0	-	-	-	-	-	0.0

Synodus spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0 33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	1.8	-	0.0
113.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.3	-	0.0
117.0 26.0	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0	-	5.2	-	2.4
117.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	22.1	-	5.5
117.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	11.8	-	0.0
117.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	4.4	-	0.0
120.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	-	15.4	-	0.0
120.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	-	11.3	-	48.6
120.0 40.0	-	7.3	0.0	0.0	0.0	0.0	-	-	-	-	-	48.3
120.0 42.5	-	6.2	0.0	0.0	0.0	0.0	-	-	-	-	-	-
120.0 45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	28.8	-	9.7
120.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	23.6	-	0.0
120.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	2.3
120.0 70.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0 37.0	16.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	213.8	-	85.3
123.0 40.0	25.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0	-	91.0	-	11.9
123.0 45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	8.6	-	0.0
123.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.2	-	0.0
123.0 55.0	-	-	0.0	0.0	0.0	0.0	-	-	-	0.0	-	7.1
127.0 34.0	3.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	146.8
127.0 50.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.2	-	0.0
130.0 30.0	18.1	19.5	0.0	0.0	0.0	0.0	0.0	0.0	-	6.7	-	548.3
130.0 35.0	22.2	72.5	0.0	0.0	0.0	0.0	0.0	0.0	-	1.6	-	490.1
130.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	5.2	-	27.4
130.0 45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	6.0	-	-
130.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.1	-	0.0
133.0 25.0	20.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	7.2	-	4.7
133.0 30.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	1.9	-	8.3
133.0 40.0	5.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
137.0 23.0	167.6	7.8	0.0	0.0	0.0	0.0	0.0	2.8	-	221.5	-	29.3

TABLE 4. (cont.)

Synodus spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0	30.0	21.9	5.5	0.0	0.0	0.0	0.0	0.0	-	216.8	-	6.4
137.0	40.0	-	0.0	0.0	0.0	0.0	-	-	-	-	-	-
137.0	50.0	-	0.0	0.0	0.0	0.0	-	-	-	-	-	-
140.0	30.0	-	-	-	-	-	-	-	-	-	-	72.4
140.0	35.0	-	-	-	-	-	-	-	-	-	-	13.5
143.0	26.0	-	-	-	-	-	-	-	-	-	-	7.6
143.0	30.0	-	-	-	-	-	-	-	-	-	-	0.0
143.0	35.0	-	-	-	-	-	-	-	-	-	-	0.0
147.0	20.0	-	-	-	-	-	-	-	-	-	-	74.5
147.0	25.0	-	-	-	-	-	-	-	-	-	-	11.8
147.0	30.0	-	-	-	-	-	-	-	-	-	-	0.0
150.0	19.0	-	-	-	-	-	-	-	-	-	-	0.0
150.0	25.0	-	-	-	-	-	-	-	-	-	-	0.0

Bregmaceros spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
157.0	10.0	-	-	-	-	-	-	-	-	-	-	4.2

Merluccius productus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	55.0	-	-	1.9	4.8	11.3	0.0	-	0.0	-	-	-
70.0	70.0	-	-	0.0	0.0	3.1	0.0	-	0.0	-	-	-
70.0	90.0	-	-	0.0	19.1	0.0	-	-	-	-	-	-
73.0	60.0	-	-	0.0	0.0	14.8	-	-	0.0	-	-	-
77.0	55.0	0.0	0.0	0.0	0.0	2.4	0.0	-	0.0	0.0	-	21.4
80.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0	55.0	4.1	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0	60.0	2.9	3.3	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0	80.0	0.0	0.0	2.5	5.2	0.0	0.0	-	0.0	0.0	-	0.0
80.0	90.0	0.0	0.0	7.5	12.3	0.0	0.0	-	0.0	0.0	-	0.0
82.0	47.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	16.1
83.0	40.0	40.3	3.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	43.0	2.8	0.0	4.3	0.0	0.0	0.0	-	0.0	0.0	-	16.3
83.0	48.0	0.0	2.7	0.0	0.0	0.0	0.0	-	0.0	0.0	-	3.6
83.0	51.0	0.0	9.8	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	55.0	0.0	0.0	0.0	11.4	0.0	0.0	-	0.0	0.0	-	0.0
83.0	80.0	-	-	20.1	7.6	5.2	-	-	-	-	-	-
83.0	90.0	-	-	18.1	16.9	7.8	-	-	-	-	-	-
85.0	39.0	18.0	14.3	0.0	1.6	0.0	-	-	2.7	0.0	-	17.0
85.0	40.0	15.9	15.4	4.1	0.0	-	0.0	-	0.0	3.0	-	11.6
85.0	45.0	5.4	2.3	3.3	5.9	0.0	0.0	-	0.0	0.0	-	3.1
85.0	50.0	2.7	59.8	48.1	0.0	0.0	0.0	-	0.0	0.0	-	0.0

TABLE 4. (cont.)

Merluccius productus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
85.0	55.0	0.0	0.0	28.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0	60.0	2.2	240.9	10.4	11.5	24.7	0.0	-	0.0	0.0	-	0.0
87.0	35.0	0.0	22.5	0.0	0.0	0.0	0.0	-	2.9	0.0	-	14.1
87.0	40.0	3.1	5.2	0.0	0.0	0.0	0.0	-	0.0	-	-	9.4
87.0	45.0	2.2	13.6	5.6	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	50.0	0.0	0.0	2.0	1.9	0.0	0.0	-	0.0	0.0	-	0.0
87.0	55.0	8.9	0.0	89.9	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	60.0	0.0	4157.4	63.4	29.6	19.2	0.0	-	0.0	0.0	-	0.0
87.0	70.0	-	-	141.5	5.9	-	-	-	-	-	-	-
87.0	80.0	-	-	208.0	14.1	2.4	-	-	-	-	-	-
87.0	90.0	-	-	26.4	5.6	0.0	-	-	-	-	-	-
90.0	28.0	5.9	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	30.0	4.2	5.6	16.4	0.0	0.0	0.0	-	0.0	0.0	-	2.9
90.0	37.0	10.0	0.0	3.0	0.0	0.0	0.0	-	0.0	0.0	-	3.3
90.0	45.0	4.0	0.0	4.6	10.4	0.0	0.0	-	0.0	0.0	-	0.0
90.0	50.0	-	-	-	2.4	0.0	-	-	-	0.0	-	3.3
90.0	53.0	17.4	-	-	-	-	-	-	-	-	-	-
90.0	55.0	-	0.0	11.1	0.0	3.3	0.0	-	0.0	0.0	-	-
90.0	60.0	0.0	0.0	25.7	0.0	3.4	0.0	-	0.0	0.0	-	2.9
90.0	70.0	0.0	0.0	8.3	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	80.0	0.0	-	20.2	27.9	3.4	-	-	-	-	-	-
90.0	90.0	0.0	-	31.3	19.0	-	-	-	-	-	-	-
93.0	27.0	2.7	24.8	0.0	0.0	0.0	0.0	-	0.0	0.0	-	3.1
93.0	30.0	7.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
93.0	35.0	-	-	14.5	0.0	0.0	3.3	-	0.0	-	-	-
93.0	40.0	12.9	2.6	0.0	0.0	-	0.0	-	0.0	5.9	-	0.0
93.0	45.0	-	-	8.6	0.0	2.5	0.0	-	0.0	10.6	-	0.0
93.0	50.0	56.3	-	3.1	2.6	0.0	4.3	-	0.0	0.0	-	-
93.0	55.0	-	-	7.9	31.6	0.0	-	-	0.0	-	-	-
93.0	60.0	0.0	-	0.0	2.6	0.0	-	-	-	-	-	-
93.0	70.0	-	0.0	0.0	0.0	2.6	-	-	-	-	-	-
93.0	80.0	-	-	6.0	20.7	-	-	-	-	-	-	-
93.0	90.0	-	-	70.4	11.3	-	-	-	-	-	-	-
97.0	30.0	0.0	7.5	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
97.0	32.0	2.6	0.0	-	2.4	0.0	0.0	-	0.0	0.0	-	3.2
97.0	36.0	-	-	-	7.6	0.0	-	-	-	-	-	-
97.0	40.0	0.0	0.0	58.4	11.2	0.0	0.0	-	0.0	0.0	-	0.0
97.0	45.0	-	-	37.6	28.9	0.0	0.0	-	0.0	0.0	-	-
97.0	50.0	1.9	60.9	136.9	10.8	0.0	0.0	-	0.0	0.0	-	3.5
97.0	55.0	-	-	5.9	5.1	0.0	-	-	-	0.0	-	-
97.0	60.0	0.0	256.3	3.0	4.1	0.0	-	-	-	-	-	-
97.0	70.0	-	1988.3	63.4	3.2	0.0	-	-	-	-	-	-
97.0	80.0	-	-	102.3	2.9	0.0	-	-	-	-	-	-
97.0	90.0	-	-	253.8	22.2	2.6	-	-	-	-	-	-
100.0	29.0	5.4	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	11.8
100.0	30.0	9.4	12.4	0.0	0.0	0.0	0.0	-	0.0	0.0	-	3.0

TABLE 4. (cont.)

Merluccius productus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	35.0	-	2.8	0.0	5.2	0.0	0.0	-	0.0	-	-	-
100.0	40.0	194.3	14.5	0.0	6.1	0.0	0.0	-	0.0	0.0	-	0.0
100.0	45.0	-	1225.0	135.7	41.3	0.0	0.0	-	0.0	0.0	-	-
100.0	50.0	6.0	1030.3	60.4	15.9	0.0	0.0	-	0.0	0.0	-	-
100.0	55.0	-	380.2	57.4	18.7	0.0	-	-	0.0	0.0	-	-
100.0	60.0	2.4	50.4	144.0	5.3	0.0	0.0	0.0	-	0.0	-	0.0
100.0	70.0	0.0	18.0	75.4	0.0	0.0	0.0	0.0	-	0.0	-	0.0
100.0	80.0	0.0	143.5	19.2	3.3	0.0	0.0	-	-	0.0	-	-
100.0	90.0	0.0	7.0	17.5	0.0	0.0	-	-	-	0.0	-	0.0
103.0	30.0	58.8	180.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	5.7
103.0	35.0	42.7	7.0	0.0	2.5	0.0	0.0	0.0	-	0.0	-	0.0
103.0	40.0	2.4	0.0	0.0	6.0	0.0	0.0	0.0	-	0.0	-	0.0
103.0	45.0	-	73.8	85.0	15.4	3.0	-	-	-	-	-	-
103.0	50.0	0.0	228.4	54.7	23.6	3.1	-	-	-	-	-	-
103.0	55.0	0.0	1832.1	120.3	2.9	0.0	-	-	-	-	-	-
103.0	60.0	1.9	74.5	135.2	2.8	0.0	-	-	-	-	-	-
103.0	70.0	-	-	15.0	2.7	0.0	-	-	-	-	-	-
103.0	80.0	-	-	48.5	0.0	0.0	-	-	-	-	-	-
107.0	32.0	15.7	1.8	18.8	5.9	0.0	0.0	0.0	-	0.0	-	3.0
107.0	35.0	5.8	0.0	51.2	13.8	0.0	0.0	0.0	-	0.0	-	0.0
107.0	40.0	0.0	19.9	22.0	18.2	0.0	0.0	0.0	-	0.0	-	0.0
107.0	45.0	-	76.8	110.5	2.9	0.0	-	-	-	-	-	-
107.0	50.0	-	43.7	29.1	3.3	0.0	-	-	-	-	-	-
107.0	55.0	-	24.9	24.1	25.7	0.0	-	-	-	-	-	-
107.0	60.0	0.0	14.2	52.7	0.0	0.0	-	-	-	-	-	-
107.0	70.0	-	-	13.6	0.0	0.0	-	-	-	-	-	-
107.0	80.0	-	-	2.9	0.0	-	-	-	-	-	-	-
110.0	33.0	5.9	9.0	15.9	6.4	0.0	0.0	0.0	-	0.0	-	45.9
110.0	35.0	1.9	13.6	9.6	18.5	0.0	0.0	0.0	-	0.0	-	5.6
110.0	40.0	0.0	18.0	6.3	23.9	0.0	0.0	0.0	-	0.0	-	0.0
110.0	45.0	-	24.1	8.6	3.5	0.0	0.0	0.0	-	0.0	-	0.0
110.0	50.0	0.0	80.5	3.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	55.0	-	88.5	3.0	3.4	0.0	-	-	-	0.0	-	-
110.0	60.0	0.0	7.3	10.1	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	70.0	1.9	185.6	0.0	0.0	0.0	-	-	-	-	-	-
110.0	80.0	0.0	30.4	31.9	0.0	0.0	-	-	-	-	-	-
110.0	90.0	0.0	-	2.8	0.0	-	-	-	-	-	-	-
113.0	30.0	2.7	55.8	4.9	0.0	0.0	0.0	0.0	-	0.0	-	9.4
113.0	32.5	-	0.0	8.2	0.0	0.0	-	-	-	-	-	-
113.0	35.0	166.3	387.8	12.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	37.5	-	58.4	30.1	0.0	0.0	-	-	-	0.0	-	-
113.0	40.0	19.7	113.1	17.4	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	42.5	-	0.0	14.2	0.0	0.0	-	-	-	-	-	-
113.0	45.0	-	0.0	9.2	0.0	0.0	-	-	-	-	-	-
113.0	47.5	-	110.8	5.8	0.0	0.0	-	-	-	-	-	-
113.0	50.0	0.0	414.4	5.8	0.0	0.0	-	-	-	-	-	6.9
113.0	50.0	0.0	52.7	0.0	0.0	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

Merluccius productus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	55.0	-	37.4	0.0	0.0	0.0	-	-	-	-	-	-
113.0	60.0	-	69.2	0.0	0.0	0.0	-	-	-	-	-	0.0
113.0	70.0	-	-	3.6	0.0	0.0	-	-	-	-	-	-
117.0	26.0	-	0.0	5.7	5.2	10.8	2.4	2.3	-	0.0	-	0.0
117.0	28.0	-	2.7	0.0	0.0	0.0	-	-	-	-	-	-
117.0	30.0	8.7	349.3	7.8	2.3	0.0	0.0	0.0	-	0.0	-	27.6
117.0	32.5	-	285.6	25.4	11.1	0.0	-	-	-	-	-	-
117.0	35.0	255.1	88.2	39.4	27.2	0.0	0.0	0.0	-	0.0	-	35.5
117.0	37.5	-	47.4	38.9	3.2	0.0	-	-	-	-	-	-
117.0	40.0	3.0	26.6	11.1	4.2	0.0	0.0	2.9	-	4.4	-	22.5
117.0	42.5	-	2.4	39.2	3.8	0.0	-	-	-	-	-	-
117.0	45.0	-	0.0	76.2	0.0	0.0	-	-	-	-	-	-
117.0	47.5	-	0.0	54.3	2.4	0.0	-	-	-	-	-	0.0
117.0	50.0	0.0	7.0	25.3	2.5	0.0	-	-	-	-	-	-
117.0	55.0	-	0.0	0.0	0.0	0.0	-	-	-	-	-	0.0
117.0	60.0	-	52.8	0.0	0.0	0.0	-	-	-	1.2	-	0.0
120.0	25.0	4.7	0.0	10.5	0.0	0.0	0.0	0.0	-	-	-	0.0
120.0	27.5	-	-	6.6	5.7	0.0	-	-	-	-	-	-
120.0	30.0	2.7	19.7	21.7	4.5	0.0	0.0	7.4	-	0.0	-	0.0
120.0	32.5	-	3.1	35.4	0.0	0.0	-	-	-	-	-	-
120.0	35.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	40.0	-	0.0	4.7	0.0	0.0	-	-	-	-	-	0.0
120.0	42.5	-	36.0	123.4	0.0	0.0	-	-	-	-	-	-
120.0	45.0	77.7	93.8	161.2	5.9	0.0	0.0	3.7	-	0.0	-	0.0
120.0	47.5	-	130.6	213.8	3.3	0.0	0.0	-	-	-	-	-
120.0	50.0	45.1	54.2	112.5	11.8	0.0	0.0	0.0	-	0.0	-	0.0
120.0	55.0	-	22.8	36.0	0.0	0.0	-	-	-	-	-	-
120.0	60.0	0.0	545.4	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	70.0	0.0	144.6	0.0	3.2	0.0	0.0	0.0	-	0.0	-	0.0
120.0	80.0	0.0	27.4	0.0	3.5	0.0	0.0	0.0	-	0.0	-	0.0
120.0	90.0	-	6.1	-	3.5	0.0	0.0	0.0	-	0.0	-	0.0
120.0	90.0	-	5.2	-	3.5	0.0	0.0	0.0	-	0.0	-	0.0
123.0	37.0	25.8	61.8	42.3	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0	40.0	6.2	142.5	36.8	23.9	0.0	0.0	0.0	-	0.0	-	0.0
123.0	42.0	-	-	-	-	-	-	-	-	-	-	-
123.0	42.5	-	0.0	132.3	6.4	0.0	-	-	-	-	-	-
123.0	45.0	-	5.1	144.9	10.6	0.0	0.0	0.0	-	0.0	-	0.0
123.0	47.5	-	8.4	65.6	3.3	0.0	-	-	-	-	-	-
123.0	50.0	0.0	9.0	43.1	18.9	0.0	0.0	0.0	-	0.0	-	0.0
123.0	55.0	-	17.9	3.6	9.7	0.0	-	-	-	0.0	-	-
123.0	60.0	0.0	20.8	0.0	66.0	0.0	-	-	-	-	-	0.0
127.0	34.0	6.0	53.8	95.5	3.0	0.0	2.2	0.0	-	-	-	0.0
127.0	37.0	-	25.6	92.5	0.0	0.0	-	-	-	-	-	-
127.0	40.0	15.2	31.9	63.2	8.8	-	0.0	0.0	-	0.0	-	0.0
127.0	42.5	-	5.4	286.3	12.1	0.0	-	-	-	-	-	-
127.0	45.0	-	11.5	13.6	3.1	0.0	0.0	0.0	-	0.0	-	0.0
127.0	47.5	-	11.8	0.0	0.0	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

Merluccius productus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
127.0	50.0	10.1	2.4	11.3	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0	55.0	-	5.9	0.0	0.0	0.0	-	-	-	0.0	-	0.0
127.0	60.0	0.0	0.0	10.1	0.0	0.0	-	-	-	-	-	-
130.0	30.0	21.1	5.6	44.7	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	35.0	1373.9	1930.4	52.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	40.0	23.8	136.3	28.1	2.7	0.0	0.0	0.0	-	0.0	-	0.0
130.0	45.0	-	19.9	3.2	0.0	0.0	0.0	0.0	-	0.0	-	-
130.0	50.0	2.7	5.1	9.2	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	60.0	7.0	0.0	0.0	3.4	0.0	0.0	0.0	-	0.0	-	0.0
133.0	25.0	30.2	32.4	134.4	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0	30.0	327.9	256.5	286.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0	35.0	-	24.7	24.1	0.0	0.0	0.0	0.0	-	-	-	-
133.0	40.0	17.6	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
133.0	45.0	-	8.9	0.0	13.0	0.0	-	-	-	-	-	-
133.0	50.0	0.0	35.4	0.0	9.4	0.0	-	-	-	-	-	-
137.0	23.0	0.0	4.5	48.3	0.0	0.0	0.0	0.0	-	0.0	-	0.0
137.0	30.0	332.6	155.1	41.8	0.0	0.0	5.8	0.0	-	0.0	-	0.0
137.0	35.0	-	60.3	70.8	0.0	0.0	-	-	-	-	-	-
137.0	40.0	12.4	2.7	7.0	0.0	0.0	-	-	-	-	-	-
137.0	45.0	-	2.6	2.9	0.0	0.0	-	-	-	-	-	-
137.0	50.0	8.3	0.0	2.9	0.0	0.0	-	-	-	-	-	-
140.0	30.0	66.9	-	-	-	-	-	-	-	-	-	0.0
140.0	35.0	114.8	-	-	-	-	-	-	-	-	-	0.0
140.0	40.0	2.8	-	-	-	-	-	-	-	-	-	8.6
140.0	110.0	3.2	-	-	-	-	-	-	-	-	-	-
143.0	26.0	788.6	-	-	-	-	-	-	-	-	-	0.0
143.0	30.0	1088.0	-	-	-	-	-	-	-	-	-	0.0
143.0	35.0	201.5	-	-	-	-	-	-	-	-	-	0.0
147.0	20.0	607.6	-	-	-	-	-	-	-	-	-	0.0
147.0	25.0	11001.8	-	-	-	-	-	-	-	-	-	0.0
147.0	30.0	1070.2	-	-	-	-	-	-	-	-	-	0.0
150.0	19.0	14.2	-	-	-	-	-	-	-	-	-	0.0
150.0	30.0	52.9	-	-	-	-	-	-	-	-	-	0.0

Macrouridae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
57.0	51.0	-	-	-	-	1.9	-	-	-	-	-	-
80.0	60.0	2.9	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0	50.0	2.7	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
110.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.0	0.0	-	0.0
120.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	-	0.0	-	0.0
123.0	45.0	-	0.0	0.0	2.6	0.0	0.0	0.0	-	0.0	-	0.0
127.0	40.0	3.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0	-	0.0
127.0	45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0

TABLE 4. (cont.)

Macrouridae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0	35.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
137.0	23.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
137.0	30.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
147.0	20.0	-	-	-	-	-	-	-	-	-	-	0.0
147.0	25.0	6.2	-	-	-	-	-	-	-	-	-	0.0

Ophidiiformes

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
73.0	50.0	-	-	0.0	0.0	3.2	-	-	0.0	-	-	-
77.0	55.0	0.0	0.0	0.0	0.0	2.4	0.0	-	0.0	0.0	-	-
80.0	51.0	0.0	0.0	0.0	0.0	2.2	0.0	-	0.0	0.0	-	0.0
80.0	90.0	-	2.1	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
82.0	47.0	0.0	0.0	0.0	5.1	0.0	0.0	-	0.0	0.0	-	0.0
83.0	48.0	0.0	5.4	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	51.0	0.0	6.6	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0	39.0	0.0	0.0	2.1	0.0	0.0	-	-	0.0	0.0	-	0.0
85.0	45.0	0.0	0.0	0.0	0.0	2.0	0.0	-	0.0	0.0	-	0.0
85.0	50.0	0.0	0.0	0.0	8.8	0.0	0.0	-	0.0	0.0	-	0.0
87.0	35.0	0.0	0.0	0.0	4.3	0.0	0.0	-	0.0	0.0	-	0.0
87.0	40.0	0.0	0.0	0.0	3.5	0.0	0.0	-	0.0	0.0	-	0.0
87.0	55.0	0.0	0.0	0.0	4.3	0.0	0.0	-	0.0	0.0	-	0.0
90.0	28.0	0.0	0.0	0.0	2.2	0.0	0.0	-	0.0	0.0	-	0.0
90.0	37.0	0.0	0.0	0.0	2.9	0.0	0.0	-	0.0	0.0	-	0.0
90.0	60.0	0.0	0.0	0.0	6.1	0.0	0.0	-	0.0	0.0	-	0.0
93.0	40.0	0.0	0.0	0.0	2.5	-	0.0	-	0.0	0.0	-	0.0
100.0	45.0	-	0.0	0.0	3.4	0.0	0.0	-	0.0	0.0	-	0.0
110.0	33.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	37.5	-	0.0	0.0	0.0	3.1	-	0.0	-	4.4	-	0.0
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-
117.0	45.0	0.0	0.0	2.7	0.0	0.0	-	-	-	-	-	-
117.0	47.5	-	0.0	0.0	2.4	0.0	-	-	-	-	-	-
120.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	-	0.0	-	0.0
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	5.8	-	0.0
120.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.9	-	0.0
123.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	6.5	-	0.0
123.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	5.7	-	0.0
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	1.3	-	4.9
130.0	35.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	27.8	-	0.0	-	0.0
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	-	5.9	-	0.0
143.0	26.0	-	-	-	0.0	-	-	-	-	-	-	5.7
147.0	20.0	-	-	-	-	-	-	-	-	-	-	8.3

TABLE 4. (cont.)

Brosomphycis marginata

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
67.0 55.0	-	-	-	0.0	0.0	0.0	9.7	9.9	-	-	-	-
73.0 50.0	-	-	-	0.0	2.2	0.0	-	-	0.0	-	-	-
77.0 55.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	-	0.0	0.0	-	-
83.0 48.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	-	0.0	2.7	-	0.0
83.0 51.0	0.0	0.0	0.0	5.0	0.0	1.5	0.0	-	0.0	0.0	-	0.0
85.0 45.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0	-	0.0	0.0	-	0.0
87.0 45.0	0.0	0.0	0.0	0.0	0.0	9.6	0.0	-	0.0	0.0	-	0.0
87.0 50.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	-	0.0	0.0	-	0.0
87.0 55.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0 60.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0 45.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0 50.0	-	-	-	-	2.4	0.0	-	-	-	0.0	-	0.0
103.0 30.0	0.0	0.0	0.0	2.4	0.0	5.4	0.0	0.0	-	0.0	-	0.0
110.0 35.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0	-	0.0	-	0.0
117.0 35.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0	-	0.0	-	0.0

Carapidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0 35.0	-	-	0.0	3.5	0.0	0.0	-	-	-	-	-	-
137.0 45.0	-	-	0.0	2.9	0.0	0.0	-	-	-	-	-	-
150.0 25.0	3.4	-	-	-	-	-	-	-	-	-	-	0.0

Chilara taylori

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0 50.0	0.0	0.0	0.0	0.0	-	0.0	12.3	-	0.0	0.0	-	-
83.0 40.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	-	0.0	0.0	-	0.0
90.0 70.0	0.0	0.0	0.0	0.0	0.0	0.0	11.7	-	0.0	0.0	-	0.0
117.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	2.4
117.0 60.0	-	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	3.1
120.0 25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	1.9
120.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	1.0	-	0.0
147.0 25.0	6.2	-	-	-	-	-	-	-	-	-	-	0.0

Ophidion scrippsae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0 45.0	0.0	0.0	0.0	0.0	12.8	0.0	0.0	-	0.0	0.0	-	0.0
117.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	3.2
123.0 37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.3	-	0.0
127.0 40.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	3.4	-	0.0
130.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.9	-	0.0	-	0.0

TABLE 4. (cont.)

Ophidion scrippsae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	-	0.0	-	0.0
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	-	0.0	-	0.0
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	52.2	-	1.8	-	2.3
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.7	-	0.0
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	119.5	-	27.4	-	0.0
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	172.6	-	41.0	-	0.0
147.0	20.0	-	-	-	-	-	-	-	-	-	-	6.2
147.0	25.0	0.0	-	-	-	-	-	-	-	-	-	2.9

Ceratioidei

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	90.0	-	0.0	0.0	0.0	0.0	-	-	-	3.0	-	0.0
120.0	90.0	-	0.0	-	0.0	0.0	0.0	0.0	-	2.9	-	0.0

Exocoetidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
127.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	-	0.0	-	0.0

Cololabis saira

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	51.0	0.0	2.3	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0	70.0	0.0	5.4	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0
80.0	90.0	-	0.0	0.0	2.5	0.0	0.0	-	0.0	0.0	-	0.0
83.0	55.0	0.0	5.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	60.0	0.0	5.5	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0	45.0	0.0	4.7	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	55.0	-	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	60.0	0.0	2.3	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	70.0	0.0	2.3	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	55.0	-	3.8	0.0	0.0	0.0	-	-	-	0.0	-	0.0
100.0	70.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
100.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
103.0	45.0	-	0.0	0.0	0.0	0.0	-	-	-	-	-	0.0
110.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	40.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
117.0	26.0	-	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
117.0	50.0	0.0	0.0	0.0	0.0	6.1	-	0.0	-	0.0	-	0.0
120.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	37.5	-	0.0	0.0	0.0	0.0	-	-	-	-	-	0.0
120.0	90.0	-	0.0	-	0.0	3.2	0.0	0.0	-	0.0	-	0.0

TABLE 4. (cont.)

Cololabis saira (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
127.0 40.0	0.0	3.5	0.0	0.0	0.0	-	0.0	0.0	-	0.0	-	0.0
130.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	-	0.0	-	0.0

Atherinidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 51.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0 48.0	0.0	2.7	2.7	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0 40.0	0.0	2.7	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0
87.0 35.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
97.0 30.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
107.0 32.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	-	0.0	-	0.0

Trachipteridae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 80.0	-	-	-	0.0	0.0	0.0	0.0	-	2.8	-	-	-
70.0 55.0	-	-	-	0.0	0.0	11.3	0.0	-	0.0	-	-	-
73.0 60.0	-	-	-	0.0	0.0	3.0	-	-	0.0	-	-	-
83.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	2.9	-	0.0
83.0 80.0	-	-	-	0.0	2.5	0.0	-	-	-	-	-	-
85.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	-	0.0	0.0	-	0.0
87.0 60.0	0.0	0.0	0.0	0.0	0.0	9.6	0.0	-	0.0	0.0	-	0.0
87.0 70.0	-	-	-	2.4	3.0	-	-	-	-	-	-	-
87.0 80.0	-	-	-	2.6	0.0	0.0	-	-	-	-	-	-
90.0 55.0	-	6.3	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-
90.0 90.0	0.0	-	-	0.0	2.7	-	-	-	-	-	-	-
100.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.0	-	0.0
100.0 80.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0 35.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	-	0.0	-	0.0
110.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	0.0	-	0.0
120.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	-	0.0	-	0.0

Melamphaes spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0 70.0	-	-	-	-	-	2.8	-	-	-	-	-	-
67.0 65.0	-	-	-	-	-	0.0	9.1	0.0	-	-	-	-
70.0 60.0	-	-	-	0.0	0.0	4.8	0.0	-	0.0	-	-	-
70.0 70.0	-	-	-	0.0	4.3	6.2	4.4	-	0.0	-	-	-
70.0 80.0	-	-	-	-	0.0	3.2	2.7	-	0.0	-	-	-
70.0 90.0	-	-	-	0.0	0.0	3.4	-	-	-	-	-	-
70.0 100.0	-	-	-	-	-	4.9	-	-	-	-	-	-

TABLE 4. (cont.)

Melamphaes spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
73.0	60.0	-	-	0.0	0.0	11.8	-	-	0.0	-	-	-
80.0	60.0	0.0	0.0	0.0	0.0	11.4	0.0	-	0.0	0.0	-	0.0
80.0	70.0	0.0	0.0	2.9	0.0	-	0.0	-	0.0	0.0	-	0.0
80.0	80.0	0.0	2.6	2.5	2.6	0.0	0.0	-	0.0	0.0	-	0.0
80.0	90.0	0.0	4.3	2.5	0.0	3.0	2.6	-	2.8	0.0	-	0.0
80.0	100.0	0.0	-	-	-	0.0	-	-	6.0	-	-	-
83.0	43.0	0.0	0.0	4.3	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	60.0	0.0	8.3	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	80.0	-	-	0.0	2.5	0.0	-	-	-	-	-	-
83.0	90.0	-	-	0.0	2.8	0.0	-	-	-	-	-	-
85.0	50.0	0.0	0.0	6.8	8.8	0.0	0.0	-	0.0	0.0	-	0.0
85.0	55.0	0.0	0.0	0.0	4.4	0.0	0.0	-	0.0	0.0	-	0.0
87.0	55.0	0.0	0.0	0.0	4.3	0.0	0.0	-	0.0	0.0	-	0.0
87.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	70.0	0.0	0.0	2.4	3.0	0.0	-	-	-	-	-	-
87.0	80.0	-	-	5.2	2.8	2.4	-	-	-	-	-	-
90.0	55.0	0.0	0.0	0.0	2.6	6.7	0.0	-	0.0	0.0	-	0.0
90.0	60.0	0.0	0.0	2.3	0.0	0.0	6.5	-	2.7	0.0	-	0.0
90.0	70.0	0.0	0.0	2.8	3.1	0.0	0.0	-	0.0	0.0	-	0.0
90.0	80.0	0.0	-	0.0	0.0	6.7	-	-	-	-	-	-
90.0	90.0	0.0	-	5.7	8.2	-	-	-	-	-	-	-
93.0	45.0	-	-	0.0	0.0	0.0	0.0	-	2.2	0.0	-	-
93.0	80.0	-	-	0.0	4.6	-	-	-	-	-	-	-
93.0	90.0	-	-	9.6	4.5	-	-	-	-	-	-	-
97.0	32.0	0.0	0.0	-	0.0	0.0	0.0	-	2.7	0.0	-	0.0
97.0	45.0	-	-	0.0	7.9	0.0	0.0	-	0.0	0.0	-	0.0
97.0	50.0	0.0	0.0	3.3	5.4	5.8	0.0	-	0.0	0.0	-	0.0
97.0	55.0	-	-	0.0	2.6	0.0	0.0	-	0.0	0.0	-	-
97.0	60.0	0.0	0.0	0.0	0.0	2.6	-	-	-	-	-	-
97.0	80.0	-	-	3.1	0.0	0.0	-	-	-	-	-	-
97.0	90.0	-	-	0.0	5.5	5.2	-	-	0.0	0.0	-	0.0
100.0	29.0	0.0	0.0	0.0	0.0	2.7	0.0	-	0.0	-	-	-
100.0	35.0	-	0.0	0.0	2.6	0.0	0.0	-	0.0	-	-	-
100.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	5.9	0.0	-	0.0
100.0	45.0	-	0.0	0.0	3.4	8.5	0.0	-	0.0	0.0	-	-
100.0	50.0	0.0	4.9	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-
100.0	55.0	-	0.0	5.7	0.0	0.0	-	-	-	0.0	-	0.0
100.0	60.0	0.0	0.0	12.0	0.0	5.0	0.0	2.9	-	0.0	-	3.7
100.0	70.0	0.0	0.0	0.0	3.5	0.0	3.1	3.0	-	0.0	-	0.0
100.0	80.0	1.8	2.3	0.0	3.3	0.0	8.6	-	-	0.0	-	0.0
100.0	90.0	0.0	2.3	2.9	6.7	7.0	-	-	-	3.0	-	-
100.0	100.0	-	-	0.0	3.4	-	-	-	-	0.0	-	-
103.0	30.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
103.0	40.0	0.0	0.0	0.0	0.0	2.9	0.0	3.0	-	0.0	-	0.0
103.0	45.0	-	5.9	5.9	0.0	0.0	-	-	-	-	-	-
103.0	50.0	2.6	0.0	3.0	0.0	3.1	-	-	-	-	-	-
103.0	50.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

Melamphaes spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0	55.0	-	0.0	3.9	2.9	0.0	-	-	-	-	-	-
103.0	60.0	0.0	5.1	11.8	5.5	8.0	-	-	-	-	-	-
103.0	70.0	-	-	0.0	2.7	0.0	-	-	-	-	-	-
103.0	80.0	-	-	0.0	6.9	0.0	-	-	-	-	-	-
103.0	90.0	-	-	-	3.2	-	-	-	-	-	-	-
107.0	32.0	0.0	0.0	0.0	0.0	5.8	3.5	0.0	-	0.0	-	0.0
107.0	35.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	-	0.0	-	0.0
107.0	50.0	-	4.9	0.0	16.6	2.9	-	-	-	-	-	-
107.0	55.0	-	1.7	0.0	0.0	6.1	-	-	-	-	-	-
107.0	60.0	0.0	2.4	3.5	3.3	2.4	-	-	-	-	-	-
107.0	70.0	-	-	0.0	14.0	3.2	-	-	-	-	-	-
110.0	40.0	0.0	0.0	3.1	3.0	0.0	2.7	3.2	-	0.0	-	0.0
110.0	45.0	-	0.0	5.8	0.0	3.0	0.0	0.0	-	0.0	-	-
110.0	50.0	0.0	0.0	0.0	5.7	0.0	3.5	3.1	-	0.0	-	0.0
110.0	55.0	-	3.2	3.0	0.0	0.0	-	-	-	0.0	-	-
110.0	60.0	0.0	0.0	0.0	0.0	8.2	0.0	0.0	-	0.0	-	0.0
110.0	70.0	1.9	0.0	2.4	0.0	3.0	-	-	-	-	-	-
110.0	90.0	0.0	-	2.8	2.8	-	-	-	-	-	-	-
110.0	100.0	2.3	-	-	-	-	-	-	-	-	-	-
113.0	35.0	0.0	0.0	0.0	0.0	0.0	3.5	4.8	-	0.0	-	0.0
113.0	37.5	-	0.0	3.3	5.4	0.0	-	-	-	-	-	-
113.0	45.0	-	0.0	6.1	0.0	0.0	-	-	-	-	-	-
113.0	47.5	-	2.8	0.0	3.2	0.0	-	-	-	-	-	-
113.0	50.0	0.0	0.0	0.0	5.7	0.0	-	-	-	-	-	0.0
113.0	60.0	-	6.9	3.5	0.0	2.8	3.6	0.0	-	0.0	-	3.0
117.0	35.0	0.0	0.0	0.0	0.0	2.8	-	-	-	-	-	0.0
117.0	37.5	-	0.0	5.6	0.0	0.0	-	0.0	-	0.0	-	0.0
117.0	40.0	0.0	0.0	0.0	2.1	0.0	0.0	-	-	-	-	-
117.0	42.5	-	0.0	0.0	3.8	0.0	-	-	-	-	-	-
117.0	45.0	-	2.1	0.0	0.0	0.0	-	-	-	-	-	-
117.0	47.5	-	2.8	8.6	2.4	0.0	-	-	-	-	-	0.0
117.0	50.0	0.0	2.3	2.8	0.0	0.0	-	-	-	-	-	0.0
117.0	60.0	-	0.0	0.0	2.4	0.0	-	-	-	-	-	0.0
117.0	70.0	-	-	0.0	2.1	0.0	-	-	-	-	-	-
120.0	50.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	-	0.0	-	0.0
120.0	55.0	-	0.0	3.0	0.0	0.0	-	-	-	-	-	-
120.0	60.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	-	0.0	-	0.0
120.0	70.0	0.0	0.0	0.0	3.2	0.0	0.0	3.0	-	0.0	-	3.0
120.0	80.0	0.0	0.0	-	0.0	0.0	0.0	2.8	-	3.3	-	0.0
123.0	45.0	-	0.0	0.0	0.0	0.0	2.9	0.0	-	0.0	-	0.0
123.0	50.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	-	3.2	-	0.0
123.0	60.0	0.0	0.0	0.0	5.7	0.0	-	-	-	-	-	-
127.0	47.5	-	0.0	3.3	0.0	0.0	-	-	-	-	-	0.0
127.0	50.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	-	0.0	-	-
127.0	60.0	0.0	0.0	3.4	0.0	2.7	2.7	0.0	-	0.0	-	-
130.0	45.0	-	0.0	0.0	0.0	0.0	2.7	0.0	-	0.0	-	-

TABLE 4. (cont.)

Melamphaes spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	3.0
130.0 60.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	-	0.0	-	0.0
137.0 50.0	0.0	-	0.0	2.9	0.0	2.6	-	-	-	-	-	-
147.0 20.0	2.8	-	-	-	-	-	-	-	-	-	-	0.0
147.0 90.0	3.2	-	-	-	-	-	-	-	-	-	-	0.0
150.0 30.0	3.1	-	-	-	-	-	-	-	-	-	-	0.0
150.0 50.0	2.7	-	-	-	-	-	-	-	-	-	-	2.1
157.0 10.0	-	-	-	-	-	-	-	-	-	-	-	2.8
157.0 20.0	-	-	-	-	-	-	-	-	-	-	-	2.7
157.0 30.0	-	-	-	-	-	-	-	-	-	-	-	-

Poromitra spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0 60.0	-	-	-	-	-	2.9	-	-	-	-	-	-
60.0 90.0	-	-	-	2.3	0.0	0.0	0.0	-	0.0	-	-	-
70.0 90.0	-	-	-	0.0	5.5	0.0	0.0	-	0.0	-	-	-
80.0 90.0	0.0	-	0.0	5.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0 60.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0 60.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
93.0 80.0	-	-	-	0.0	2.3	-	-	-	-	-	-	-
97.0 50.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0 50.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0 60.0	0.0	3.1	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	-	0.0
100.0 80.0	0.0	0.0	0.0	0.0	3.3	0.0	2.9	-	-	0.0	-	0.0
103.0 35.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	-	2.3	-	0.0
103.0 70.0	-	-	-	0.0	5.4	0.0	-	-	-	-	-	-
107.0 80.0	-	-	-	0.0	4.1	-	-	-	-	-	-	0.0
110.0 40.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0 45.0	-	0.0	3.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0 50.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0 70.0	0.0	-	0.0	2.4	0.0	0.0	-	-	-	-	-	-
117.0 42.5	-	-	0.0	0.0	3.8	0.0	-	-	-	-	-	0.0
120.0 45.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	-	0.0	-	0.0
120.0 60.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	-	0.0	-	0.0
123.0 45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	3.0	-	0.0	-	0.0
127.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	-	0.0	-	0.0
133.0 25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	-	0.0	-	0.0

Scopelogadus bispinosus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0 90.0	-	-	-	0.0	2.8	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

Scopelogadus bispinosus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	90.0	0.0	0.0	0.0	0.0	0.0	-	-	-	3.0	-	0.0
103.0	60.0	0.0	0.0	0.0	0.0	2.7	-	-	-	-	-	-
103.0	80.0	-	-	0.0	3.4	0.0	-	-	-	-	-	-
107.0	32.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	-	0.0	-	0.0
107.0	55.0	-	0.0	0.0	0.0	3.1	-	-	-	-	-	-
107.0	60.0	0.0	0.0	0.0	0.0	4.8	-	-	-	-	-	-
117.0	30.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	-	0.0	-	0.0
117.0	32.5	-	0.0	0.0	0.0	2.9	-	-	-	-	-	-
120.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	-	0.0	-	0.0
120.0	80.0	0.0	0.0	-	0.0	0.0	0.0	2.8	-	0.0	-	0.0
120.0	90.0	-	0.0	-	0.0	0.0	0.0	0.0	-	2.9	-	0.0
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	-	2.9	-	0.0
150.0	25.0	0.0	-	-	-	-	-	-	-	-	-	4.7

Syngnathus spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	1.9	0.0	-	0.0
85.0	45.0	0.0	0.0	0.0	0.0	0.0	2.5	-	0.0	0.0	-	0.0
87.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.9	0.0	-	0.0
150.0	19.0	-	-	-	-	-	-	-	-	-	-	0.0

Agonidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	55.0	-	-	0.0	2.5	0.0	0.0	0.0	-	-	-	-
63.0	52.0	-	-	0.0	0.0	1.9	0.0	0.0	-	-	-	-
73.0	50.0	-	-	0.0	2.2	0.0	-	-	0.0	-	-	-
80.0	51.0	0.0	2.3	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
82.0	47.0	0.0	0.0	2.9	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	48.0	0.0	5.4	0.0	5.6	0.0	0.0	-	0.0	0.0	-	0.0
83.0	51.0	0.0	3.3	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.3	0.0	-	0.0
85.0	39.0	-	2.4	0.0	0.0	0.0	-	-	0.0	0.0	-	0.0
85.0	45.0	0.0	2.3	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	28.0	0.0	0.0	0.0	0.0	0.0	2.6	-	0.0	0.0	-	0.0
90.0	30.0	0.0	0.0	0.0	0.0	0.0	3.1	-	0.0	0.0	-	0.0
97.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	6.4	-	0.0
100.0	29.0	0.0	0.5	0.0	0.0	0.0	4.9	-	0.0	0.0	-	0.0
103.0	30.0	0.0	0.0	0.0	0.0	0.0	16.6	0.0	-	0.0	-	2.9
103.0	35.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	-	0.0	-	0.0
113.0	30.0	0.0	0.0	0.0	2.7	4.5	0.0	0.0	-	0.0	-	0.0
113.0	60.0	0.0	0.0	0.0	0.0	2.8	-	-	-	-	-	0.0
117.0	26.0	-	0.0	0.0	0.0	0.0	2.4	0.0	-	0.0	-	0.0

TABLE 4. (cont.)

Cottidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0	47.0	-	-	-	17.8	3.1	-	-	-	-	-	-
63.0	52.0	-	-	7.7	0.0	1.9	0.0	0.0	-	-	-	-
63.0	55.0	-	-	2.7	0.0	0.0	0.0	0.0	-	-	-	-
67.0	50.0	-	-	2.2	0.0	4.7	0.0	0.0	-	-	-	-
80.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	2.7
82.0	47.0	0.0	0.0	0.0	0.0	0.0	2.3	-	0.0	0.0	-	0.0
83.0	48.0	0.0	0.0	4.3	61.2	0.0	0.0	-	0.0	0.0	-	0.0
83.0	51.0	0.0	9.8	7.5	0.0	0.0	0.0	-	0.0	3.4	-	3.2
85.0	39.0	6.0	0.0	0.0	0.0	0.0	-	-	0.0	0.0	-	0.0
85.0	50.0	0.0	3.3	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	3.1
87.0	50.0	6.4	0.0	2.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	28.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	2.6	-	0.0
93.0	27.0	0.0	0.0	0.0	0.0	6.3	0.0	-	0.0	0.0	-	0.0
97.0	30.0	0.0	5.0	43.5	0.0	2.7	0.0	-	3.2	0.0	-	0.0
100.0	29.0	0.0	0.0	0.0	0.0	19.2	0.0	-	0.0	0.0	-	0.0
100.0	30.0	0.0	0.0	5.3	0.0	0.0	0.0	-	0.0	0.0	-	0.0
103.0	30.0	0.0	0.0	0.0	1.3	0.0	10.0	0.0	0.0	0.0	-	0.0
103.0	35.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	-	0.0	-	0.0
107.0	32.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	-	0.0	-	0.0
110.0	33.0	2.0	0.0	0.0	3.2	0.0	0.0	0.0	-	1.8	-	0.0
113.0	30.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	-	0.0	-	0.0
117.0	26.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	-	0.0	-	0.0
117.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	5.5
117.0	32.5	-	0.0	6.3	0.0	0.0	-	-	-	-	-	-
117.0	40.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	1.9
123.0	37.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	-	0.0	-	0.0
127.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	-	-	-	0.0

Scorpaenichthys marmoratus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0	50.0	0.0	0.0	0.0	-	4.3	0.0	-	0.0	0.0	-	-
80.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	40.0	2.2	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	43.0	0.0	4.9	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	48.0	0.0	2.7	0.0	0.0	2.0	0.0	-	0.0	0.0	-	0.0
83.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	60.0	2.4	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	45.0	0.0	0.0	2.8	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	30.0	0.0	0.0	8.2	0.0	0.0	0.0	-	0.0	0.0	-	0.0
113.0	35.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0
123.0	42.5	-	0.0	6.3	0.0	0.0	-	0.0	-	-	-	-

TABLE 4. (cont.)

Scorpaenichthys marmoratus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
127.0 34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	-	-	-	0.0

Cyclopteridae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0 47.0	-	-	-	-	-	1.6	-	-	-	-	-	-
63.0 55.0	-	-	-	0.0	2.3	0.0	0.0	0.0	-	-	-	-
80.0 55.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0 43.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	-	0.0	0.0	-	0.0
83.0 48.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	-	0.0	0.0	-	0.0
90.0 28.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	-	0.0	0.0	-	0.0
103.0 30.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	-	0.0	-	0.0
103.0 35.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	-	0.0	-	0.0

Oxylebius pictus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
73.0 50.0	-	-	-	0.0	0.0	3.2	-	-	0.0	-	-	-
83.0 48.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0 45.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0

zaniolepis spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0 55.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-
83.0 48.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0 40.0	0.0	2.7	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0
85.0 45.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0 45.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0

Sebastes spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0 47.0	-	-	-	-	-	4.7	-	-	-	-	-	-
50.0 80.0	-	-	-	-	-	81.8	-	-	-	-	-	-
50.0 90.0	-	-	-	-	-	18.5	-	-	-	-	-	-
50.0 100.0	-	-	-	-	-	4.9	-	-	-	-	-	-
53.0 52.0	-	-	-	-	-	301.4	-	-	-	-	-	-
53.0 55.0	-	-	-	-	-	6.2	-	-	-	-	-	-
53.0 65.0	-	-	-	-	-	12.8	-	-	-	-	-	-
57.0 51.0	-	-	-	-	-	3.8	-	-	-	-	-	-
57.0 65.0	-	-	-	-	-	6.0	-	-	-	-	-	-

TABLE 4. (cont.)

Sebastes spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	55.0	-	-	63.7	22.7	0.0	5.0	57.1	-	-	-	-
60.0	60.0	-	-	6.6	2.8	37.9	11.4	16.4	-	-	-	-
60.0	70.0	-	-	7.2	0.0	20.6	10.3	12.3	-	-	-	-
60.0	80.0	-	-	0.0	0.0	10.3	17.8	-	0.0	-	-	-
60.0	90.0	-	-	15.8	0.0	11.8	15.9	-	2.6	-	-	-
60.0	100.0	-	-	-	-	0.0	9.3	-	4.2	-	-	-
63.0	52.0	-	-	5.8	31.2	13.4	0.0	0.0	-	-	-	-
63.0	55.0	-	-	5.3	177.1	478.4	74.8	39.2	-	-	-	-
67.0	50.0	-	-	0.0	27.0	257.4	0.0	10.2	-	-	-	-
67.0	55.0	-	-	52.4	5.8	96.3	68.0	9.9	-	-	-	-
67.0	65.0	-	-	-	-	0.0	63.8	10.2	-	-	-	-
70.0	51.0	-	-	-	17.7	-	-	-	-	-	-	-
70.0	52.0	-	-	-	-	89.6	0.0	-	0.0	-	-	-
70.0	55.0	-	-	121.6	9.6	22.6	28.7	-	0.0	-	-	-
70.0	60.0	-	-	5.6	0.0	4.8	0.0	-	0.0	-	-	-
70.0	70.0	-	-	3.7	4.3	6.2	0.0	-	12.0	-	-	-
70.0	80.0	-	-	-	0.0	9.5	0.0	-	0.0	-	-	-
70.0	90.0	-	-	9.2	2.7	0.0	-	-	-	-	-	-
70.0	100.0	-	-	-	-	2.4	-	-	-	-	-	-
73.0	50.0	-	-	28.2	33.2	54.9	-	-	11.8	-	-	-
73.0	55.0	-	-	-	-	-	-	-	55.7	-	-	-
73.0	60.0	-	-	5.5	11.5	8.9	-	-	61.3	-	-	-
77.0	50.0	425.9	270.9	310.8	5.6	0.0	86.2	-	12.4	0.0	-	-
77.0	55.0	419.0	485.8	110.8	-	2.4	82.0	-	24.0	0.0	-	-
77.0	65.0	-	-	13.1	11.6	-	21.0	-	2.7	-	-	-
80.0	51.0	92.0	374.5	0.0	12.4	4.4	20.5	-	10.7	0.0	-	2.7
80.0	55.0	41.0	979.2	2.2	13.6	0.0	7.1	-	67.4	0.0	-	123.8
80.0	60.0	8.7	333.0	61.0	0.0	0.0	63.8	-	17.8	3.3	-	12.6
80.0	70.0	0.0	13.7	2.9	4.2	-	24.9	-	0.0	0.0	-	0.0
80.0	80.0	0.0	0.0	2.5	2.6	0.0	10.2	-	0.0	0.0	-	0.0
80.0	90.0	0.0	15.0	2.5	2.5	0.0	0.0	-	0.0	0.0	-	0.0
82.0	47.0	14.0	178.2	119.7	41.1	0.0	28.0	-	0.0	12.4	-	161.5
83.0	40.0	0.0	396.7	5.0	15.2	0.0	6.3	-	0.0	0.0	-	0.0
83.0	43.0	145.8	343.6	170.4	0.0	0.0	23.2	-	2.7	20.5	-	24.4
83.0	48.0	325.0	254.8	147.7	72.3	4.1	36.3	-	15.8	29.4	-	49.8
83.0	51.0	444.5	331.1	37.3	23.7	3.1	17.0	-	13.7	10.3	-	25.4
83.0	55.0	392.0	32.2	162.6	34.2	0.0	36.8	-	6.7	3.4	-	0.0
83.0	60.0	137.5	0.0	40.7	33.9	95.8	24.6	-	6.3	0.0	-	0.0
83.0	70.0	-	-	12.5	0.0	21.1	-	-	-	-	-	-
83.0	80.0	-	-	2.9	2.5	5.2	-	-	-	-	-	-
83.0	90.0	-	-	6.8	0.0	0.0	-	-	-	-	-	-
85.0	39.0	-	1848.0	136.6	9.7	30.0	-	-	35.5	11.6	-	2.8
85.0	40.0	124.8	341.9	472.0	39.7	-	38.3	-	0.0	3.0	-	46.6
85.0	45.0	204.0	1121.0	55.3	64.7	2.0	17.6	-	4.8	11.8	-	15.3
85.0	50.0	356.2	547.6	10.4	70.7	0.0	5.7	-	7.1	11.0	-	15.8
85.0	55.0	5.3	734.4	2.5	43.8	0.0	0.0	-	5.3	15.4	-	0.0

TABLE 4. (cont.)

Sebastes spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
85.0	60.0	13.0	76.8	0.0	103.7	98.9	28.6	-	3.2	0.0	-	0.0
87.0	35.0	188.8	218.4	20.5	55.6	15.3	0.0	-	25.9	14.8	-	19.8
87.0	40.0	278.5	63.6	48.1	67.3	0.0	0.0	-	3.1	-	-	37.7
87.0	45.0	514.1	589.1	69.5	51.0	28.9	8.1	-	5.0	5.7	-	68.0
87.0	50.0	163.8	1920.0	4.1	58.2	0.0	9.8	-	37.9	11.4	-	178.0
87.0	55.0	31.2	0.0	31.0	34.7	52.8	14.4	-	0.0	5.4	-	3.2
87.0	60.0	13.7	8.0	34.6	0.0	57.6	12.8	-	7.4	0.0	-	0.0
87.0	70.0	-	-	4.9	5.9	-	-	-	-	-	-	-
87.0	80.0	-	-	2.6	0.0	2.4	-	-	-	-	-	-
90.0	28.0	41.0	100.0	55.7	2.2	6.3	5.1	-	0.0	7.9	-	28.4
90.0	30.0	436.8	76.4	73.8	18.7	15.2	25.0	-	4.5	12.5	-	41.2
90.0	33.5	-	-	-	41.8	6.2	-	-	-	-	-	-
90.0	37.0	46.5	575.4	68.3	31.8	6.0	0.0	-	19.5	14.3	-	0.0
90.0	41.0	-	-	-	58.1	9.4	-	-	-	-	-	-
90.0	45.0	34.2	12.1	178.6	171.6	7.1	0.0	-	0.0	5.8	-	0.0
90.0	50.0	-	-	-	81.9	4.9	-	-	-	38.5	-	16.8
90.0	53.0	133.4	-	-	-	-	-	-	-	-	-	-
90.0	55.0	-	101.1	119.1	25.9	16.7	3.5	-	0.0	5.5	-	-
90.0	60.0	183.1	48.1	7.0	109.1	34.2	39.1	-	0.0	0.0	-	25.8
90.0	70.0	0.0	0.0	8.3	0.0	18.8	0.0	-	0.0	0.0	-	0.0
90.0	80.0	2.7	2.8	5.8	0.0	3.4	-	-	-	-	-	-
93.0	27.0	54.5	41.0	19.6	71.4	6.3	357.1	-	22.6	2.9	-	9.2
93.0	30.0	25.7	8.5	17.5	7.4	10.1	9.5	-	0.0	3.0	-	2.9
93.0	35.0	-	-	171.1	23.6	8.9	6.7	-	2.7	11.9	-	9.6
93.0	40.0	25.8	5.3	25.6	14.8	-	0.0	-	0.0	2.6	-	-
93.0	45.0	-	-	174.5	11.0	14.9	0.0	-	0.0	0.0	-	3.3
93.0	50.0	8.0	0.0	15.4	71.7	9.1	17.1	-	0.0	0.0	-	-
93.0	55.0	-	-	7.9	23.7	129.6	-	-	-	-	-	-
93.0	60.0	49.1	0.0	10.0	5.1	59.8	-	-	-	-	-	-
93.0	70.0	33.8	99.3	0.0	22.2	18.4	-	-	0.0	25.4	-	14.0
97.0	30.0	31.2	87.8	109.6	18.1	5.4	169.9	-	0.0	0.0	-	0.0
97.0	32.0	-	-	-	4.8	7.7	0.0	-	0.0	-	-	-
97.0	36.0	-	-	-	10.1	6.6	-	-	-	-	-	-
97.0	40.0	5.6	39.3	20.4	8.4	5.7	0.0	-	0.0	0.0	-	6.2
97.0	45.0	-	-	8.7	2.6	43.7	12.4	-	0.0	0.0	-	-
97.0	50.0	0.0	11.2	3.3	2.7	2.9	0.0	-	0.0	0.0	-	0.0
97.0	55.0	-	-	3.0	2.6	0.0	-	-	-	-	-	-
97.0	60.0	0.0	0.0	0.0	0.0	5.2	-	-	-	-	-	-
97.0	70.0	-	0.0	5.8	6.5	0.0	-	-	-	-	-	-
97.0	80.0	-	-	0.0	5.8	2.7	-	-	-	-	-	-
100.0	29.0	211.7	207.9	58.3	26.1	5.5	0.0	-	2.8	13.3	-	20.7
100.0	30.0	223.2	118.8	497.4	40.9	5.3	0.0	-	5.8	25.1	-	14.9
100.0	35.0	-	-	265.0	10.4	0.0	0.0	-	0.0	0.0	-	0.0
100.0	40.0	154.0	0.0	45.3	9.1	6.2	5.5	-	0.0	0.0	-	0.0
100.0	45.0	-	-	13.9	13.8	0.0	3.4	-	0.0	0.0	-	-
100.0	50.0	6.0	14.8	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-

TABLE 4. (cont.)

Sebastes spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	55.0	-	0.0	0.0	18.7	0.0	-	-	-	0.0	-	-
100.0	60.0	0.0	5.0	0.0	10.6	2.5	0.0	0.0	-	0.0	-	0.0
100.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
100.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	-
103.0	30.0	58.8	118.6	125.1	27.5	40.5	0.0	13.0	-	16.7	-	8.6
103.0	35.0	16.6	2.3	104.6	54.6	17.5	0.0	0.0	-	9.2	-	30.9
103.0	40.0	0.0	2.6	6.5	30.0	14.5	0.0	0.0	-	2.9	-	0.0
103.0	45.0	0.0	0.0	0.0	10.3	8.9	-	-	-	-	-	-
103.0	50.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-
103.0	55.0	0.0	0.0	0.0	2.9	0.0	-	-	-	-	-	-
103.0	60.0	0.0	0.0	2.9	0.0	0.0	-	-	-	-	-	-
107.0	32.0	57.4	175.8	150.7	76.7	0.0	3.5	12.3	-	0.0	-	8.9
107.0	35.0	5.8	40.1	14.6	35.8	6.5	0.0	0.0	-	0.0	-	6.8
107.0	40.0	8.8	0.0	0.0	7.8	12.3	0.0	3.6	-	2.8	-	0.0
107.0	45.0	-	0.0	19.5	2.9	0.0	-	-	-	-	-	-
107.0	50.0	-	0.0	3.6	0.0	0.0	-	-	-	-	-	-
110.0	33.0	210.8	180.2	129.4	16.1	9.2	7.4	0.0	-	16.4	-	17.2
110.0	35.0	0.0	121.0	105.3	0.0	19.0	5.8	0.0	-	2.6	-	36.1
110.0	40.0	0.0	2.0	9.4	12.0	3.0	0.0	0.0	-	0.0	-	0.0
110.0	45.0	-	0.0	17.3	45.4	3.0	0.0	0.0	-	0.0	-	0.0
110.0	50.0	7.4	0.0	8.9	8.6	3.0	0.0	0.0	-	5.7	-	0.0
110.0	60.0	2.1	0.0	0.0	0.0	5.5	0.0	0.0	-	0.0	-	0.0
110.0	70.0	9.4	10.9	0.0	0.0	0.0	-	-	-	-	-	-
110.0	80.0	0.0	4.7	0.0	0.0	0.0	-	-	-	-	-	-
113.0	30.0	27.4	287.4	39.7	2.7	13.6	1.9	0.0	-	0.0	-	21.2
113.0	32.5	-	80.4	126.0	23.9	131.5	-	-	-	-	-	-
113.0	35.0	98.0	115.3	13.9	53.0	2.8	0.0	0.0	-	0.0	-	4.7
113.0	37.5	-	12.7	0.0	2.7	46.5	0.0	0.0	-	3.3	-	0.0
113.0	40.0	0.0	0.0	0.0	0.0	2.6	-	-	-	-	-	-
113.0	45.0	-	0.0	3.1	0.0	0.0	-	-	-	-	-	-
113.0	47.5	-	5.6	8.8	0.0	0.0	-	-	-	-	-	-
113.0	50.0	0.0	0.0	6.9	0.0	0.0	-	-	-	-	-	-
113.0	60.0	2.5	20.8	97.2	0.0	0.0	-	-	-	-	-	17.2
117.0	26.0	-	52.0	37.2	15.7	42.4	2.4	0.0	-	0.0	-	0.0
117.0	28.0	-	39.9	37.8	212.5	53.9	6.0	0.0	-	0.0	-	2.4
117.0	30.0	2.9	130.2	85.5	51.7	0.0	-	-	-	-	-	-
117.0	32.5	-	15.5	63.4	44.5	0.0	3.6	0.0	-	0.0	-	5.5
117.0	35.0	2.6	53.4	78.7	130.6	0.0	-	5.2	-	5.9	-	16.6
117.0	37.5	-	20.6	208.5	22.1	5.5	0.0	-	-	-	-	-
117.0	40.0	14.8	285.5	170.7	4.2	5.3	0.0	31.8	-	0.0	-	16.1
117.0	42.5	-	136.9	5.6	3.8	2.9	-	-	-	-	-	-
117.0	45.0	-	11.1	5.4	0.0	6.0	-	-	-	-	-	-
117.0	47.5	-	2.8	5.7	47.8	3.0	-	-	-	-	-	-
117.0	50.0	0.0	16.1	2.8	2.5	9.1	-	-	-	-	-	0.0
117.0	55.0	-	0.0	0.0	0.0	6.4	-	-	-	-	-	-
117.0	60.0	-	0.0	0.0	0.0	0.0	-	-	-	-	-	9.2

TABLE 4. (cont.)

Sebastes spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	25.0	0.0	0.0	0.0	8.2	0.0	13.6	0.0	-	0.0	-	1.9
120.0	27.5	-	-	13.2	74.6	2.4	-	-	-	-	-	-
120.0	30.0	10.6	7.0	21.7	66.9	8.9	18.8	0.0	-	0.0	-	0.0
120.0	32.5	-	23.6	92.5	23.3	8.0	-	-	-	-	-	-
120.0	35.0	5.3	6.1	17.3	12.1	31.1	0.0	0.0	-	0.0	-	0.0
120.0	37.5	-	2.0	12.5	17.6	28.9	-	-	-	-	-	-
120.0	40.0	-	2.0	12.5	1.9	0.0	-	-	-	-	-	6.0
120.0	42.5	-	188.0	164.6	6.6	2.5	-	-	-	-	-	-
120.0	45.0	18.8	135.2	159.5	5.9	2.7	26.8	7.3	-	0.0	-	0.0
120.0	47.5	-	102.2	129.6	13.0	0.0	-	-	-	-	-	-
120.0	50.0	-	67.8	105.0	90.2	0.0	0.0	0.0	-	0.0	-	0.0
120.0	55.0	-	22.8	0.0	121.4	0.0	-	-	-	-	-	-
120.0	60.0	0.0	18.1	0.0	0.0	4.9	0.0	6.4	-	0.0	-	4.6
120.0	70.0	0.0	14.6	0.0	0.0	6.4	0.0	0.0	-	0.0	-	0.0
120.0	80.0	0.0	0.0	-	28.3	0.0	0.0	5.7	-	0.0	-	0.0
120.0	90.0	-	0.0	-	14.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0	37.0	11.8	84.0	175.2	38.4	6.4	12.8	2.7	-	0.0	-	5.5
123.0	40.0	6.2	39.9	66.2	34.1	8.6	5.7	3.3	-	0.0	-	0.0
123.0	42.0	-	-	-	-	-	-	-	-	-	-	-
123.0	42.5	-	0.0	144.9	12.7	0.0	-	-	-	-	-	-
123.0	45.0	-	0.0	151.8	63.4	0.0	0.0	0.0	-	0.0	-	3.0
123.0	47.5	-	0.0	131.2	39.4	0.0	-	-	-	-	-	-
123.0	50.0	0.0	0.0	7.2	37.8	0.0	0.0	3.3	-	0.0	-	0.0
123.0	55.0	-	0.0	3.6	22.7	0.0	-	-	-	0.0	-	0.0
123.0	60.0	-	0.0	2.8	155.0	0.0	-	-	-	-	-	-
123.0	60.0	0.0	0.0	45.0	41.4	3.0	4.4	2.9	-	-	-	4.7
127.0	34.0	0.0	167.4	124.6	8.6	28.9	-	-	-	-	-	-
127.0	40.0	-	85.2	148.8	102.6	-	2.9	22.6	-	3.4	-	0.0
127.0	42.5	6.1	21.3	231.6	90.6	6.5	53.1	56.0	-	2.9	-	0.0
127.0	45.0	-	2.7	238.7	0.0	0.0	-	-	-	-	-	-
127.0	47.5	-	0.0	16.3	0.0	0.0	2.9	5.6	-	0.0	-	0.0
127.0	50.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	30.0	0.0	3.7	12.8	3.5	15.7	0.0	0.0	-	0.0	-	0.0
130.0	35.0	0.0	0.0	22.6	3.3	3.2	2.1	0.0	-	0.0	-	0.0
130.0	40.0	0.0	0.0	11.2	5.3	0.0	0.0	4.7	-	5.2	-	0.0
130.0	45.0	-	0.0	3.2	3.1	0.0	10.7	3.4	-	0.0	-	0.0
130.0	50.0	0.0	0.0	0.0	0.0	0.0	3.1	3.6	-	6.2	-	0.0
130.0	55.0	-	0.0	0.0	0.0	0.0	-	-	-	0.0	-	-
130.0	60.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	-	3.8	-	0.0
133.0	25.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	-	1.8	-	0.0
133.0	30.0	0.0	52.2	2.7	24.2	2.7	2.9	0.0	-	0.0	-	-
133.0	35.0	-	0.0	6.0	6.2	0.0	6.9	0.0	-	-	-	-
133.0	40.0	0.0	0.0	0.0	3.0	5.4	11.5	0.0	-	-	-	-
133.0	45.0	-	0.0	0.0	26.0	5.7	-	-	-	-	-	-
133.0	50.0	0.0	0.0	0.0	35.1	0.0	-	-	-	-	-	-
137.0	23.0	11.4	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0

TABLE 4. (cont.)

Sebastes spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0 30.0	11.9	8.2	91.4	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
137.0 35.0	-	-	0.0	3.5	0.0	0.0	-	-	-	-	-	-
137.0 40.0	0.0	-	0.0	3.5	0.0	0.0	-	-	-	-	-	-
140.0 30.0	14.6	-	-	-	-	-	-	-	-	-	-	0.0
140.0 110.0	3.2	-	-	-	-	-	-	-	-	-	-	-
143.0 30.0	16.0	-	-	-	-	-	-	-	-	-	-	0.0
143.0 35.0	32.1	-	-	-	-	-	-	-	-	-	-	0.0
147.0 20.0	75.6	-	-	-	-	-	-	-	-	-	-	0.0
147.0 25.0	221.8	-	-	-	-	-	-	-	-	-	-	0.0
147.0 30.0	99.8	-	-	-	-	-	-	-	-	-	-	0.0
150.0 19.0	54.0	-	-	-	-	-	-	-	-	-	-	0.0
150.0 25.0	6.7	-	-	-	-	-	-	-	-	-	-	0.0
150.0 30.0	31.1	-	-	-	-	-	-	-	-	-	-	0.0

Sebastolobus spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0 32.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	-	0.0	-	0.0

Prionotus spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.1	-	0.0	-	0.0
120.0 70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.7	-	0.0
123.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	6.5	-	0.0
133.0 25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.9	-	1.8	-	0.0
133.0 35.0	-	0.0	0.0	0.0	0.0	0.0	0.0	3.3	-	-	-	-
137.0 23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.7	-	207.8	-	0.0
137.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.7	-	17.6	-	0.0
143.0 30.0	0.0	-	-	-	-	-	-	-	-	-	-	2.9
147.0 20.0	0.0	-	-	-	-	-	-	-	-	-	-	24.8
147.0 25.0	0.0	-	-	-	-	-	-	-	-	-	-	14.7

Hypsoblennius spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	-	0.0	0.0	-	0.0
83.0 43.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	-	0.0	0.0	-	0.0
90.0 28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	1.3	0.0	-	0.0
90.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	0.0	0.0	-	0.0
90.0 33.5	-	-	-	-	2.3	0.0	-	-	-	-	-	-
93.0 27.0	0.0	0.0	0.0	0.0	0.0	0.0	22.3	-	0.0	0.0	-	0.0
93.0 55.0	-	-	-	0.0	0.0	25.9	-	-	-	0.0	-	-

TABLE 4. (cont.)

Hypsoblennius spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
113.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	2.4
117.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	-	0.0	-	0.0
120.0	25.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	1.0	-	0.0
123.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	-	-	-	0.0
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	-	5.3	-	0.0
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	-	0.0	-	0.0
133.0	25.0	0.0	3.2	0.0	0.0	0.0	0.0	2.6	-	0.0	-	0.0
133.0	30.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	-	0.0	-	2.8
133.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
137.0	23.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	-	5.9	-	1.8
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.9	-	0.0
140.0	110.0	3.2	-	-	-	-	-	-	-	-	-	-

Clinidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
82.0	47.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	40.0	0.0	3.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	50.0	0.0	0.0	0.0	0.0	0.0	4.9	-	2.4	0.0	-	0.0
90.0	28.0	0.0	0.0	0.0	4.3	0.0	0.0	-	0.0	0.0	-	0.0
93.0	27.0	0.0	0.0	0.0	0.0	6.3	0.0	-	0.0	0.0	-	0.0
97.0	30.0	0.0	0.0	1.9	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	29.0	0.0	0.5	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
103.0	30.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	-	0.0	-	5.7
103.0	35.0	0.0	0.0	0.0	7.4	0.0	0.0	0.0	-	0.0	-	0.0
107.0	32.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	-	0.0	-	3.0
110.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	40.0	0.0	0.0	0.0	9.5	0.0	-	0.0	-	-	-	12.1
120.0	42.5	0.0	4.0	0.0	0.0	0.0	-	-	-	-	-	-

Gobiidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0	55.0	4.9	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-
77.0	65.0	-	-	2.6	0.0	-	0.0	-	0.0	-	-	-
80.0	51.0	1.5	0.0	0.0	0.0	0.0	2.0	-	0.0	0.0	-	2.7
80.0	55.0	2.0	0.0	0.0	2.3	0.0	0.0	-	0.0	0.0	-	0.0
82.0	47.0	0.0	0.0	0.0	0.0	0.0	2.3	-	0.0	3.1	-	6.5
83.0	40.0	0.0	0.0	0.0	3.0	0.0	0.0	-	1.9	0.0	-	0.0
83.0	43.0	2.8	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	48.0	0.0	2.7	0.0	0.0	4.1	2.4	-	0.0	0.0	-	0.0
83.0	60.0	2.4	0.0	0.0	0.0	0.0	0.0	-	0.0	2.9	-	0.0
85.0	40.0	0.0	0.0	4.1	0.0	-	0.0	-	0.0	0.0	-	0.0

TABLE 4. (cont.)

Gobiidae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
85.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0	50.0	2.5	0.0	0.0	8.8	0.0	2.8	-	0.0	0.0	-	0.0
85.0	55.0	3.0	6.6	0.0	4.4	0.0	0.0	-	0.0	0.0	-	0.0
85.0	60.0	3.4	0.0	0.0	0.0	0.0	0.0	-	0.0	3.1	-	0.0
87.0	35.0	10.9	9.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	-	0.0
87.0	45.0	0.0	0.0	0.0	0.0	9.6	4.0	-	2.5	0.0	-	0.0
87.0	50.0	0.0	0.0	0.0	1.9	0.0	2.5	-	2.4	0.0	-	0.0
87.0	60.0	0.0	0.0	0.0	0.0	0.0	12.8	-	0.0	0.0	-	0.0
90.0	30.0	0.0	0.0	0.0	5.3	5.1	3.1	-	0.0	0.0	-	0.0
90.0	37.0	2.5	0.0	0.0	0.0	0.0	0.0	-	2.8	0.0	-	0.0
90.0	41.0	-	-	-	0.0	4.7	-	-	-	-	-	-
90.0	60.0	0.0	2.3	0.0	6.1	0.0	0.0	-	0.0	0.0	-	0.0
90.0	70.0	0.0	0.0	0.0	0.0	0.0	11.7	-	0.0	0.0	-	0.0
93.0	27.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	2.9	-	0.0
93.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.5	0.0	-	0.0
93.0	40.0	0.0	0.0	0.0	2.5	-	0.0	-	0.0	3.0	-	0.0
93.0	50.0	0.0	-	0.0	2.6	0.0	0.0	-	0.0	0.0	-	0.0
93.0	55.0	-	-	4.0	0.0	0.0	-	-	-	0.0	-	-
93.0	60.0	0.0	-	0.0	0.0	13.3	-	-	-	-	-	-
97.0	30.0	0.0	2.5	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
97.0	40.0	0.0	0.0	0.0	0.0	0.0	2.5	-	0.0	0.0	-	0.0
97.0	45.0	-	-	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
97.0	50.0	0.0	0.0	0.0	2.7	0.0	2.4	-	0.0	0.0	-	0.0
100.0	29.0	0.0	1.0	2.2	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	30.0	0.0	0.0	0.0	0.0	5.3	0.0	-	0.0	0.0	-	0.0
100.0	40.0	0.0	0.0	2.8	0.0	3.1	0.0	-	0.0	0.0	-	0.0
103.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
103.0	35.0	0.0	0.0	3.2	0.0	0.0	2.8	-	-	2.3	-	5.7
107.0	32.0	2.8	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
110.0	33.0	3.4	0.0	2.0	0.0	0.0	0.0	-	-	1.8	-	2.9
113.0	30.0	0.0	0.0	4.0	0.0	0.0	0.0	-	-	0.0	-	0.0
113.0	35.0	0.0	0.0	2.8	0.0	0.0	0.0	-	-	0.0	-	0.0
113.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
117.0	35.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	3.4
117.0	37.5	-	2.1	0.0	5.4	0.0	0.0	-	-	3.0	-	0.0
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	0.0
117.0	47.5	-	0.0	3.7	0.0	0.0	0.0	-	-	0.0	-	0.0
120.0	30.0	0.0	0.0	0.0	2.4	0.0	0.0	-	-	-	-	0.0
120.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	2.6	-	0.0
120.0	50.0	0.0	0.0	0.0	0.0	2.8	0.0	-	-	1.0	-	0.0
123.0	37.0	9.2	0.0	0.0	3.9	0.0	0.0	-	-	4.7	-	0.0
123.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	0.0
123.0	50.0	0.0	0.0	0.0	6.3	4.3	0.0	-	-	0.0	-	0.0
127.0	40.0	0.0	0.0	3.7	0.0	-	0.0	-	-	0.0	-	0.0
127.0	45.0	0.0	0.0	3.4	0.0	0.0	0.0	-	-	0.0	-	0.0

TABLE 4. (cont.)

Gobiidae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0	50.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	-	0.0	-	0.0
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	-	0.0	-	0.0
133.0	50.0	0.0	0.0	0.0	0.0	2.7	-	-	-	-	-	-
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
140.0	30.0	0.0	-	-	-	-	-	-	-	-	-	8.5
140.0	35.0	0.0	-	-	-	-	-	-	-	-	-	5.4
140.0	50.0	3.1	-	-	-	-	-	-	-	-	-	8.3
147.0	20.0	0.0	-	-	-	-	-	-	-	-	-	0.0
150.0	19.0	-	-	-	-	-	-	-	-	-	-	2.8
157.0	20.0	-	-	-	-	-	-	-	-	-	-	-

Labridae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0	55.0	5.5	2.9	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-
80.0	60.0	3.3	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0	70.0	3.4	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0
82.0	47.0	0.0	0.0	2.9	0.0	0.0	0.0	-	8.2	0.0	-	0.0
83.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	2.3	-	0.0
83.0	43.0	0.0	0.0	0.0	0.0	0.0	11.6	-	0.0	2.6	-	0.0
83.0	48.0	0.0	0.0	0.0	0.0	0.0	16.9	-	0.0	2.7	-	3.6
83.0	51.0	0.0	0.0	0.0	0.0	0.0	9.4	-	0.0	0.0	-	0.0
83.0	60.0	0.0	0.0	0.0	0.0	13.7	0.0	-	9.5	0.0	-	0.0
85.0	39.0	0.0	0.0	0.0	1.6	0.0	-	-	0.0	0.0	-	0.0
85.0	40.0	0.0	0.0	0.0	0.0	-	10.2	-	0.0	3.0	-	0.0
85.0	45.0	0.0	0.0	0.0	0.0	0.0	22.6	-	0.0	0.0	-	0.0
85.0	50.0	0.0	0.0	0.0	0.0	0.0	42.5	-	0.0	0.0	-	0.0
85.0	55.0	0.0	0.0	0.0	0.0	0.0	15.4	-	2.7	0.0	-	0.0
85.0	60.0	0.0	0.0	0.0	5.8	0.0	0.0	-	3.2	0.0	-	0.0
87.0	35.0	0.0	0.0	0.0	0.0	0.0	4.5	-	0.0	0.0	-	0.0
87.0	40.0	0.0	0.0	0.0	3.5	0.0	0.0	-	6.2	0.0	-	0.0
87.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	50.0	0.0	0.0	0.0	0.0	0.0	20.2	-	0.0	0.0	-	0.0
87.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	7.1	0.0	-	0.0
87.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	7.8	0.0	-	0.0
90.0	30.0	0.0	0.0	0.0	0.0	0.0	3.1	-	0.0	0.0	-	0.0
90.0	37.0	0.0	0.0	0.0	0.0	0.0	4.2	-	0.0	8.6	-	0.0
90.0	41.0	-	-	-	19.4	2.3	-	-	-	-	-	-
90.0	45.0	0.0	0.0	0.0	5.2	0.0	3.2	-	0.0	0.0	-	0.0
90.0	55.0	0.0	0.0	0.0	0.0	0.0	3.5	-	0.0	2.8	-	-
90.0	60.0	2.5	0.0	0.0	0.0	6.8	45.6	-	0.0	0.0	-	0.0
93.0	27.0	0.0	0.0	0.0	3.4	0.0	334.8	-	1.9	0.0	-	0.0
93.0	30.0	0.0	0.0	0.0	2.5	0.0	28.6	-	0.0	0.0	-	0.0
93.0	45.0	-	-	2.9	12.8	0.0	0.0	-	0.0	0.0	-	0.0
93.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
97.0	30.0	0.0	0.0	0.0	0.0	2.7	226.6	-	6.3	0.0	-	0.0

TABLE 4. (cont.)

Labridae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	32.0	0.0	0.0	-	0.0	0.0	2.8	-	0.0	0.0	-	0.0
97.0	36.0	-	0.0	-	0.0	6.6	-	-	-	-	-	-
97.0	40.0	0.0	0.0	2.9	0.0	0.0	7.9	-	0.0	0.0	-	0.0
97.0	45.0	-	0.0	0.0	0.0	0.0	2.5	-	0.0	0.0	-	-
97.0	50.0	0.0	0.0	3.3	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	30.0	0.0	0.0	0.0	0.0	29.4	21.3	-	0.0	0.0	-	0.0
100.0	35.0	-	0.0	0.0	2.6	2.9	13.8	-	0.0	-	-	-
100.0	40.0	0.0	0.0	0.0	0.0	3.1	2.8	-	0.0	0.0	-	0.0
100.0	50.0	0.0	4.9	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-
100.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	-	0.0	-	0.0
100.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	-	0.0	-	0.0
100.0	80.0	0.0	0.0	0.0	0.0	6.1	0.0	-	-	0.0	-	-
100.0	90.0	0.0	0.0	0.0	0.0	0.0	-	-	-	3.0	-	0.0
103.0	30.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0	-	0.0	-	0.0
103.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	-	0.0	-	0.0
103.0	45.0	-	0.0	0.0	0.0	3.0	-	-	-	0.0	-	-
107.0	32.0	0.0	0.0	0.0	5.9	0.0	27.7	0.0	-	0.0	-	0.0
107.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	-	0.0	-	0.0
107.0	40.0	0.0	0.0	0.0	2.6	0.0	0.0	3.6	-	0.0	-	0.0
107.0	45.0	-	0.0	0.0	2.9	0.0	-	-	-	-	-	-
107.0	80.0	-	-	0.0	4.1	-	-	-	-	-	-	-
110.0	35.0	0.0	0.0	3.2	0.0	2.7	0.0	0.0	-	0.0	-	0.0
110.0	45.0	0.0	0.0	0.0	0.0	9.1	0.0	0.0	-	0.0	-	-
113.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.3	-	0.0
113.0	55.0	-	3.4	0.0	0.0	0.0	-	-	-	-	-	-
117.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.6	-	0.0
117.0	32.5	-	0.0	0.0	2.8	5.8	-	-	-	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	-	0.0	-	0.0
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	-	5.8	-	2.4
120.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	5.3	-	0.0
123.0	45.0	-	0.0	0.0	0.0	0.0	0.0	15.1	-	2.9	-	0.0
123.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.2	-	0.0
127.0	40.0	0.0	5.3	0.0	0.0	-	0.0	0.0	-	3.4	-	0.0
127.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.9	-	0.0
127.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	-	0.0	-	0.0
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	-	0.0	-	0.0
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	17.9	-	3.2	-	0.0
130.0	40.0	3.4	0.0	0.0	0.0	0.0	0.0	5.4	-	0.0	-	0.0
130.0	45.0	-	0.0	0.0	0.0	0.0	5.4	0.0	-	0.0	-	-
130.0	55.0	-	0.0	0.0	0.0	0.0	-	-	-	13.5	-	-
130.0	60.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	-	0.0	-	0.0
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.7	-	0.0
133.0	40.0	2.5	0.0	0.0	0.0	0.0	5.7	4.3	-	-	-	-
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	-	2.0	-	0.0
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	-	35.2	-	0.0
137.0	40.0	-	2.7	0.0	0.0	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

Labridae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
140.0	50.0	3.1	-	-	-	-	-	-	-	-	-	-
143.0	35.0	2.9	-	-	-	-	-	-	-	-	-	0.0
147.0	30.0	6.2	-	-	-	-	-	-	-	-	-	0.0
150.0	30.0	6.2	-	-	-	-	-	-	-	-	-	0.0
157.0	20.0	-	-	-	-	-	-	-	-	-	-	5.7
157.0	30.0	-	-	-	-	-	-	-	-	-	-	2.7

Pomacentridae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0	37.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	-	0.0	-	0.0
127.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	-	-	-	0.0
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	14.9	-	0.0	-	4.9
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	-	0.0	-	2.9
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	30.6	-	3.9	-	1.8
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2	-	0.0	-	0.0
143.0	26.0	0.0	-	-	-	-	-	-	-	-	-	1.9
143.0	35.0	0.0	-	-	-	-	-	-	-	-	-	5.3
147.0	20.0	-	-	-	-	-	-	-	-	-	-	10.3
157.0	30.0	-	-	-	-	-	-	-	-	-	-	2.7

Chromis punctipinnis

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	48.0	0.0	0.0	0.0	0.0	0.0	2.4	-	0.0	0.0	-	0.0
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.1	-	-	0.0
90.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	-	5.6	0.0	-	0.0
93.0	45.0	-	-	0.0	0.0	0.0	0.0	-	2.2	0.0	-	-
103.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	-	0.0	-	0.0
107.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	-	0.0	-	0.0
107.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	-	0.0	-	0.0
107.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	-	0.0	-	0.0
110.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	0.0	-	0.0
110.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	20.6	-	0.0	-	0.0
117.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	-	0.0	-	0.0
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	80.0	0.0	0.0	-	0.0	0.0	0.0	5.7	-	2.6	-	0.0
123.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	45.5	-	3.3	-	0.0
123.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0	40.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	3.2	-	0.0
127.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.4	-	0.0
127.0	55.0	-	0.0	0.0	0.0	0.0	0.0	2.8	-	0.0	-	0.0
130.0	45.0	-	0.0	0.0	0.0	0.0	0.0	6.8	-	12.6	-	0.0
130.0	55.0	-	0.0	0.0	0.0	0.0	-	-	-	0.0	-	-
										6.7	-	-

TABLE 4. (cont.)

Mugil spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	-	0.0	-	0.0

Brama spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
103.0 80.0	-	-	-	0.0	0.0	2.8	-	-	-	-	-	-
120.0 80.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	3.3	-	0.0

Carangidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	-	0.0	-	0.0
120.0 25.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0 30.0	0.0	0.0	15.8	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0 40.0	0.0	0.0	0.0	3.7	0.0	-	0.0	0.0	-	0.0	-	0.0
127.0 45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	3.0	-	0.0	-	0.0
130.0 60.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	-	0.0	-	0.0
137.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7	-	0.0	-	0.0
147.0 30.0	6.2	-	-	-	-	-	-	-	-	-	-	0.0
150.0 19.0	39.8	-	-	-	-	-	-	-	-	-	-	0.0

Seriola spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	-	0.0	-	0.0

Seriola lalandi

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.9	-	0.0	-	0.0
117.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	-	0.0	-	0.0
123.0 45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	81.8	-	0.0	-	0.0
127.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	-	0.0	-	0.0
130.0 45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	3.4	-	0.0	-	-

Trachurus symmetricus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 70.0	-	-	-	0.0	0.0	0.0	20.6	0.0	-	-	-	-
60.0 80.0	-	-	-	0.0	0.0	0.0	17.8	-	2.8	-	-	-
60.0 90.0	-	-	-	0.0	0.0	5.9	2.7	-	0.0	-	-	-

TABLE 4. (cont.)

Trachurus symmetricus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	100.0	-	-	-	-	3.1	2.3	-	0.0	-	-	-
67.0	55.0	-	-	0.0	0.0	24.1	0.0	0.0	-	-	-	-
70.0	60.0	-	-	0.0	0.0	14.5	0.0	0.0	0.0	-	-	-
70.0	70.0	-	-	0.0	2.1	40.4	4.4	-	0.0	-	-	-
70.0	80.0	-	-	-	0.0	3.2	0.0	-	2.6	-	-	-
70.0	90.0	-	-	0.0	0.0	20.2	-	-	-	-	-	-
70.0	100.0	-	-	-	-	4.9	-	-	-	-	-	-
73.0	60.0	-	-	0.0	34.4	62.2	-	-	0.0	-	-	-
77.0	65.0	-	-	0.0	0.0	-	42.1	-	0.0	-	-	-
80.0	51.0	0.0	0.0	0.0	0.0	0.0	2.0	-	0.0	0.0	-	0.0
80.0	60.0	0.0	0.0	0.0	0.0	11.4	0.0	-	0.0	0.0	-	0.0
80.0	80.0	0.0	0.0	2.5	10.4	0.0	0.0	-	0.0	0.0	-	0.0
80.0	90.0	0.0	0.0	2.5	4.9	3.0	0.0	-	0.0	0.0	-	0.0
80.0	100.0	0.0	-	-	-	22.0	-	-	0.0	0.0	-	0.0
82.0	47.0	0.0	0.0	2.9	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	40.0	0.0	0.0	0.0	0.0	2.1	0.0	-	1.9	0.0	-	0.0
83.0	43.0	0.0	0.0	0.0	0.0	0.0	2.9	-	0.0	0.0	-	0.0
83.0	48.0	0.0	0.0	0.0	0.0	4.1	0.0	-	0.0	0.0	-	0.0
83.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	-	16.6	0.0	-	0.0
83.0	60.0	0.0	0.0	0.0	17.0	985.0	0.0	-	0.0	0.0	-	0.0
83.0	70.0	-	-	0.0	0.0	834.2	-	-	-	-	-	-
83.0	80.0	-	-	0.0	58.0	113.5	-	-	-	-	-	-
83.0	90.0	-	-	4.5	0.0	75.1	-	-	-	-	-	-
85.0	39.0	0.0	0.0	0.0	0.0	0.0	-	-	2.7	0.0	-	0.0
85.0	40.0	0.0	0.0	0.0	0.0	-	0.0	-	1.6	0.0	-	0.0
85.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.4	0.0	-	0.0
85.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	4.7	0.0	-	0.0
85.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.7	0.0	-	0.0
85.0	60.0	0.0	0.0	0.0	51.8	123.6	0.0	-	9.6	0.0	-	0.0
87.0	45.0	0.0	0.0	0.0	0.0	0.0	8.1	-	0.0	0.0	-	0.0
87.0	50.0	0.0	0.0	0.0	33.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	55.0	0.0	0.0	3.1	17.4	0.0	0.0	-	2.6	0.0	-	0.0
87.0	60.0	0.0	0.0	0.0	2900.8	240.0	0.0	-	0.0	0.0	-	0.0
87.0	70.0	-	-	0.0	50.5	-	-	-	-	-	-	-
87.0	80.0	-	-	7.8	5.7	110.9	-	-	-	-	-	-
87.0	90.0	-	-	12.0	11.3	46.4	-	-	-	-	-	-
90.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.2	0.0	-	0.0
90.0	37.0	0.0	0.0	0.0	0.0	0.0	4.2	-	2.8	0.0	-	0.0
90.0	45.0	0.0	0.0	0.0	52.0	0.0	3.2	-	0.0	0.0	-	0.0
90.0	50.0	-	-	-	41.0	0.0	-	-	-	0.0	-	0.0
90.0	55.0	0.0	0.0	0.0	2.6	90.2	3.5	-	0.0	0.0	-	0.0
90.0	60.0	0.0	0.0	23.4	18.2	413.8	13.0	-	0.0	0.0	-	0.0
90.0	70.0	0.0	0.0	196.0	0.0	187.8	0.0	-	0.0	0.0	-	0.0
90.0	80.0	0.0	-	46.2	17.5	944.2	-	-	-	-	-	-
90.0	90.0	-	-	37.0	0.0	-	-	-	-	-	-	-
93.0	30.0	0.0	0.0	0.0	2.5	0.0	0.0	-	0.0	0.0	-	0.0

TABLE 4. (cont.)

Trachurus symmetricus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	35.0	-	-	0.0	0.0	0.0	6.7	-	2.7	-	-	-
93.0	40.0	0.0	0.0	0.0	0.0	-	54.2	-	0.0	0.0	-	0.0
93.0	45.0	-	-	0.0	2.8	5.0	14.6	-	0.0	0.0	-	-
93.0	50.0	0.0	-	0.0	7.7	0.0	12.8	-	0.0	0.0	-	0.0
93.0	55.0	-	-	0.0	13.2	155.5	-	-	-	22.5	-	-
93.0	60.0	0.0	-	0.0	0.0	185.9	-	-	-	-	-	-
93.0	70.0	-	0.0	0.0	26.3	13.2	-	-	-	-	-	-
93.0	80.0	-	-	50.7	18.4	-	-	-	-	-	-	-
93.0	90.0	-	-	19.2	13.5	-	-	-	-	-	-	-
97.0	30.0	0.0	0.0	0.0	2.6	5.4	0.0	-	3.2	0.0	-	0.0
97.0	32.0	0.0	0.0	-	2.4	12.8	0.0	-	0.0	0.0	-	0.0
97.0	36.0	-	-	-	2.5	26.4	-	-	-	-	-	-
97.0	40.0	0.0	0.0	0.0	2.8	0.0	0.0	-	8.6	0.0	-	0.0
97.0	45.0	-	-	0.0	50.0	19.1	0.0	-	3.1	0.0	-	-
97.0	50.0	0.0	0.0	0.0	2.7	75.1	17.3	-	2.5	0.0	-	0.0
97.0	55.0	-	-	32.6	18.0	29.9	0.0	-	-	0.0	-	-
97.0	60.0	0.0	18.6	32.7	0.0	2.6	-	-	-	-	-	-
97.0	70.0	-	6.9	5.8	6.5	10.8	-	-	-	-	-	-
97.0	80.0	-	-	133.3	2.9	16.3	-	-	-	-	-	-
97.0	90.0	-	-	95.9	8.3	7.7	-	-	-	-	-	-
100.0	30.0	0.0	0.0	0.0	0.0	45.4	0.0	-	0.0	0.0	-	0.0
100.0	35.0	-	0.0	0.0	10.4	20.2	0.0	-	0.0	0.0	-	-
100.0	40.0	0.0	2.4	0.0	12.1	9.2	0.0	-	5.9	0.0	-	0.0
100.0	45.0	-	5.3	0.0	17.2	117.8	6.8	-	8.9	0.0	-	-
100.0	50.0	0.0	29.2	3.0	25.4	14.1	2.9	-	5.4	0.0	-	-
100.0	55.0	-	23.0	14.3	59.8	47.1	-	-	-	0.0	-	-
100.0	60.0	0.0	20.2	12.0	0.0	34.7	11.7	5.8	-	0.0	-	0.0
100.0	70.0	0.0	38.3	66.7	52.0	17.6	0.0	0.0	-	0.0	-	0.0
100.0	80.0	0.0	51.2	3.2	29.3	15.1	0.0	0.0	-	0.0	-	-
100.0	90.0	0.0	65.0	96.0	40.4	21.1	-	-	-	0.0	-	0.0
100.0	100.0	-	-	83.2	16.9	-	-	-	-	0.0	-	-
103.0	30.0	0.0	4.6	0.0	0.0	0.0	3.3	0.0	-	0.0	-	0.0
103.0	35.0	0.0	58.3	0.0	5.0	20.4	5.6	0.0	-	0.0	-	0.0
103.0	40.0	0.0	157.4	16.4	303.0	31.8	10.1	0.0	-	0.0	-	0.0
103.0	45.0	0.0	76.7	73.3	0.0	50.2	-	-	-	-	-	-
103.0	50.0	0.0	17.0	12.2	49.6	12.6	-	-	-	-	-	-
103.0	55.0	-	0.0	31.0	17.5	63.4	-	-	-	-	-	-
103.0	60.0	0.0	20.6	73.5	30.3	34.6	-	-	-	-	-	-
103.0	70.0	19.7	-	45.0	34.8	14.6	-	-	-	-	-	-
103.0	80.0	-	-	54.9	30.9	19.5	-	-	-	-	-	-
103.0	90.0	-	-	-	6.3	-	-	-	-	-	-	-
107.0	32.0	0.0	0.0	0.0	0.0	5.8	0.0	0.0	-	0.0	-	0.0
107.0	35.0	0.0	0.0	0.0	8.3	0.0	3.2	0.0	-	0.0	-	0.0
107.0	40.0	0.0	0.0	3.7	145.6	36.8	3.3	0.0	-	0.0	-	-
107.0	45.0	0.0	100.8	6.5	11.7	0.0	-	-	-	-	-	-
107.0	50.0	0.0	0.0	51.0	69.7	43.0	-	-	-	-	-	-

TABLE 4. (cont.)

Trachurus symmetricus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	55.0	-	31.5	41.3	17.2	33.7	-	-	-	-	-	-
107.0	60.0	0.0	33.0	3.5	0.0	55.2	-	-	-	-	-	-
107.0	70.0	-	-	6.8	62.8	16.1	-	-	-	-	-	-
107.0	80.0	-	-	29.4	36.5	-	-	-	-	-	-	-
110.0	35.0	0.0	0.0	0.0	52.4	16.3	0.0	0.0	0.0	0.0	-	0.0
110.0	40.0	0.0	2.0	0.0	6.0	3.0	2.7	0.0	0.0	0.0	-	0.0
110.0	45.0	0.0	6.0	0.0	0.0	191.5	0.0	0.0	0.0	0.0	-	0.0
110.0	50.0	0.0	16.1	0.0	8.6	12.1	0.0	0.0	0.0	0.0	-	0.0
110.0	55.0	0.0	22.1	0.0	27.0	10.2	0.0	0.0	0.0	0.0	-	0.0
110.0	60.0	0.0	9.8	0.0	17.5	8.2	3.1	0.0	0.0	0.0	-	0.0
110.0	70.0	0.0	54.6	0.0	27.4	30.3	-	-	-	-	-	-
110.0	80.0	0.0	51.5	54.2	17.7	17.0	-	-	-	-	-	-
110.0	90.0	0.0	-	8.5	0.0	-	-	-	-	-	-	-
113.0	35.0	0.0	2.8	0.0	12.2	0.0	0.0	0.0	-	0.0	-	0.0
113.0	37.5	-	10.2	13.4	35.4	0.0	-	-	-	-	-	-
113.0	40.0	0.0	12.7	3.5	3.2	5.2	6.0	0.0	-	0.0	-	0.0
113.0	42.5	-	5.7	3.6	0.0	30.9	-	-	-	-	-	-
113.0	45.0	-	2.8	9.2	5.9	20.5	-	-	-	-	-	-
113.0	47.5	-	11.2	8.8	25.6	23.1	-	-	-	-	-	-
113.0	50.0	0.0	3.9	0.0	39.6	8.0	-	-	-	-	-	0.0
113.0	55.0	-	10.2	3.2	0.0	9.2	-	-	-	-	-	0.0
113.0	60.0	-	38.1	0.0	23.7	5.7	-	-	-	-	-	0.0
113.0	70.0	-	-	7.1	3.0	5.6	-	-	-	-	-	0.0
117.0	35.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0	-	0.0	-	0.0
117.0	37.5	-	0.0	0.0	25.2	0.0	-	-	-	0.0	-	0.0
117.0	40.0	0.0	1.7	59.4	2.1	0.0	0.0	0.0	-	0.0	-	0.0
117.0	42.5	-	0.0	0.0	7.7	2.9	-	-	-	-	-	-
117.0	45.0	-	0.0	13.6	0.0	0.0	-	-	-	-	-	-
117.0	47.5	-	0.0	2.9	4.8	0.0	-	-	-	-	-	-
117.0	50.0	0.0	0.0	2.8	29.9	9.1	-	-	-	-	-	0.0
117.0	55.0	-	5.5	0.0	6.3	9.5	-	-	-	-	-	0.0
117.0	60.0	-	15.4	3.5	14.6	0.0	-	-	-	-	-	0.0
117.0	70.0	-	-	33.3	14.7	0.0	-	-	-	-	-	-
120.0	27.5	-	-	0.0	2.9	0.0	-	-	-	-	-	-
120.0	32.5	-	0.0	0.0	7.8	0.0	-	-	-	-	-	0.0
120.0	35.0	0.0	0.0	2.9	2.4	0.0	0.0	0.0	-	0.0	-	0.0
120.0	37.5	-	0.0	0.0	2.0	0.0	-	-	-	-	-	-
120.0	55.0	-	0.0	0.0	5.9	5.4	-	-	-	-	-	-
120.0	60.0	0.0	0.0	39.7	19.2	7.3	0.0	0.0	-	0.0	-	0.0
120.0	70.0	0.0	0.0	20.8	12.7	6.4	0.0	0.0	-	0.0	-	0.0
120.0	80.0	0.0	0.0	-	17.7	9.1	0.0	0.0	-	0.0	-	0.0
123.0	37.0	16.4	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0	42.5	-	0.0	0.0	3.2	0.0	-	-	-	-	-	0.0
123.0	45.0	-	0.0	0.0	0.0	3.1	0.0	0.0	-	0.0	-	0.0
123.0	47.5	-	0.0	0.0	6.6	0.0	0.0	0.0	-	0.0	-	0.0
123.0	50.0	0.0	0.0	10.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0

TABLE 4. (cont.)

Trachurus symmetricus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0	55.0	-	0.0	14.3	6.5	9.1	-	-	-	0.0	-	0.0
123.0	60.0	0.0	0.0	11.2	8.6	8.6	-	-	-	-	-	-
127.0	34.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	-	-	-	0.0
127.0	37.0	-	0.0	0.0	0.0	4.8	-	-	-	-	-	-
127.0	40.0	0.0	0.0	3.7	0.0	-	0.0	0.0	-	0.0	-	0.0
127.0	42.5	-	0.0	16.8	3.0	0.0	-	-	-	-	-	-
127.0	45.0	-	0.0	6.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0	47.5	-	0.0	9.8	0.0	0.0	-	-	-	-	-	-
127.0	50.0	0.0	0.0	16.9	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0	55.0	-	0.0	0.0	0.0	2.9	-	-	-	0.0	-	0.0
127.0	60.0	-	0.0	33.8	0.0	0.0	-	-	-	-	-	-
130.0	35.0	0.0	0.0	3.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	40.0	0.0	0.0	8.4	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	45.0	0.0	0.0	34.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	50.0	0.0	0.0	6.1	3.0	2.9	0.0	0.0	-	0.0	-	0.0
130.0	55.0	-	0.0	7.0	3.0	0.0	-	-	-	0.0	-	-
130.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0	25.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	-	0.0	-	0.0
133.0	35.0	-	0.0	3.0	0.0	0.0	0.0	0.0	-	-	-	-
133.0	60.0	-	-	0.0	3.3	-	-	-	-	-	-	-
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
137.0	30.0	26.7	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
137.0	40.0	0.0	0.0	0.0	0.0	3.1	-	-	-	-	-	-

Girella nigricans

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	30.0	0.0	0.0	0.0	0.0	5.3	0.0	-	0.0	0.0	-	0.0

Medialuna californiensis

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.3	0.0	-	0.0
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.1	-	-	0.0
93.0	27.0	0.0	0.0	0.0	0.0	0.0	11.2	-	0.0	0.0	-	0.0
97.0	30.0	0.0	0.0	0.0	0.0	0.0	14.2	-	0.0	0.0	-	0.0
97.0	45.0	-	-	0.0	0.0	2.7	0.0	-	0.0	0.0	-	-
97.0	50.0	0.0	0.0	0.0	0.0	2.9	0.0	-	0.0	0.0	-	0.0
97.0	55.0	-	-	0.0	0.0	2.7	-	-	0.0	0.0	-	-
100.0	35.0	-	0.0	0.0	0.0	2.9	0.0	-	0.0	-	-	-
100.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.9	0.0	-	0.0
100.0	50.0	0.0	0.0	0.0	0.0	0.0	2.9	-	0.0	0.0	-	-
100.0	70.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0	-	0.0	-	0.0
100.0	90.0	0.0	0.0	0.0	3.4	0.0	-	0.0	-	0.0	-	0.0

TABLE 4. (cont.)

Medialuna californiensis (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
107.0	60.0	0.0	0.0	0.0	0.0	2.4	-	-	-	-	-	-
113.0	40.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	-	0.0	-	0.0
113.0	42.5	-	0.0	0.0	0.0	2.8	-	-	-	-	-	-
113.0	60.0	-	0.0	0.0	3.0	0.0	-	-	-	-	-	0.0
117.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	-	0.0	-	0.0

Caulolatilus princeps

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
110.0	45.0	-	0.0	0.0	0.0	0.0	3.4	0.0	-	0.0	-	-
123.0	45.0	-	0.0	0.0	2.6	0.0	0.0	0.0	-	0.0	-	0.0
123.0	47.5	-	0.0	0.0	9.8	0.0	-	-	-	-	-	-
123.0	50.0	0.0	0.0	0.0	12.6	0.0	0.0	0.0	-	0.0	-	0.0
127.0	37.0	-	0.0	0.0	2.9	0.0	-	-	-	-	-	-
127.0	40.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	3.4	-	0.0
127.0	45.0	-	0.0	0.0	0.0	0.0	0.0	5.9	-	0.0	-	0.0
127.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	-	0.0	-	0.0
130.0	45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	-	6.0	-	0.0
130.0	50.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	-	0.0	-	0.0
130.0	55.0	-	0.0	0.0	0.0	0.0	-	-	-	6.7	-	-
130.0	60.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	-	0.0	-	0.0

Sciaenidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0	55.0	0.0	0.0	0.0	0.0	0.0	11.7	-	0.0	0.0	-	-
80.0	51.0	0.0	0.0	0.0	0.0	0.0	6.2	-	0.0	0.0	-	5.4
80.0	55.0	10.3	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
82.0	47.0	-	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	40.0	0.0	6.0	0.0	0.0	0.0	0.0	-	0.0	2.3	-	6.1
83.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	48.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0	39.0	-	2.4	0.0	0.0	0.0	-	-	0.0	0.0	-	8.5
85.0	40.0	0.0	10.2	0.0	0.0	-	0.0	-	0.0	0.0	-	8.7
85.0	45.0	0.0	0.0	0.0	0.0	0.0	5.0	-	0.0	0.0	-	0.0
87.0	35.0	0.0	153.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	40.0	0.0	5.2	0.0	0.0	0.0	0.0	-	0.0	-	-	0.0
90.0	28.0	7.8	120.0	0.0	2.2	0.0	0.0	-	0.0	0.0	-	0.0
90.0	30.0	14.7	54.6	0.0	3.4	0.0	0.0	-	0.0	0.0	-	0.0
93.0	27.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0
93.0	40.0	2.6	44.6	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
97.0	30.0	2.5	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
97.0	32.0	10.4	0.0	11.3	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	29.0	0.0	3.1	-	0.0	0.0	7.3	-	0.0	0.0	-	14.8
			10.8	0.0	0.0	0.0			2.8			

TABLE 4. (cont.)

Sciaenidae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	30.0	2.3	18.5	16.6	0.0	0.0	14.2	-	0.0	0.0	-	0.0
100.0	35.0	-	8.3	0.0	0.0	0.0	0.0	-	0.0	-	-	-
100.0	40.0	2.4	0.0	0.0	0.0	0.0	0.0	-	0.0	-	-	0.0
103.0	30.0	61.7	0.0	0.0	0.0	0.0	13.3	0.0	0.0	0.0	-	17.2
103.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	-	0.0	-	0.0
107.0	32.0	15.7	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	33.0	41.4	34.0	0.0	0.0	0.0	0.0	0.0	-	1.8	-	0.0
110.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	35.0	8.9	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
117.0	26.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	-	0.0	-	0.0
117.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
117.0	35.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	-	0.0	-	5.5
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	40.0	0.0	4.8	0.0	0.0	0.0	0.0	5.8	-	0.0	-	0.0
120.0	42.5	-	0.0	0.0	0.0	0.0	0.0	-	-	-	-	18.1
120.0	45.0	0.0	11.7	0.0	0.0	0.0	-	-	-	-	-	-
120.0	47.5	-	5.2	0.0	0.0	0.0	0.0	18.3	-	-	-	0.0
123.0	37.0	21.1	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	-
123.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0	42.5	-	2.8	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0	45.0	-	0.0	6.3	0.0	0.0	-	-	-	-	-	-
127.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	27.3	-	0.0	-	0.0
127.0	42.5	-	0.0	3.7	0.0	-	0.0	0.0	-	0.0	-	0.0
127.0	50.0	0.0	0.0	4.2	0.0	0.0	-	-	-	-	-	-
130.0	45.0	-	0.0	0.0	0.0	0.0	0.0	5.6	-	0.0	-	0.0
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	-	0.0	-	-
133.0	35.0	-	6.5	0.0	0.0	0.0	224.0	2.6	-	0.0	-	0.0
133.0	40.0	0.0	0.0	0.0	0.0	0.0	41.2	0.0	-	-	-	-
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	-	-	-	-
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	111.2	-	0.0	-	22.0
140.0	30.0	5.8	0.0	0.0	0.0	0.0	5.8	104.1	-	0.0	-	0.0
147.0	25.0	6.2	-	-	-	-	-	-	-	-	-	2.1
147.0	90.0	3.2	-	-	-	-	-	-	-	-	-	0.0

Serranidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
82.0	47.0	0.0	0.0	0.0	0.0	0.0	7.0	-	0.0	0.0	-	0.0
85.0	40.0	0.0	0.0	0.0	0.0	-	30.6	-	0.0	0.0	-	0.0
90.0	28.0	0.0	0.0	0.0	0.0	0.0	0.0	-	5.3	0.0	-	0.0
93.0	27.0	0.0	0.0	0.0	0.0	0.0	100.4	-	7.5	0.0	-	0.0
93.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.5	0.0	-	0.0
93.0	35.0	-	-	0.0	0.0	0.0	0.0	-	5.4	-	-	-
93.0	45.0	-	-	0.0	0.0	2.5	0.0	-	0.0	0.0	-	0.0
97.0	30.0	0.0	0.0	0.0	0.0	0.0	56.6	-	0.0	0.0	-	-

TABLE 4. (cont.)

Serranidae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.9	0.0	-	0.0
117.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	-	0.0	-	0.0
120.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	1.0	-	0.0
120.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.9	-	0.0
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	9.4	-	0.0
123.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	-	6.5	-	0.0
127.0	40.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	6.8	-	0.0
127.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	-	5.9	-	0.0
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	68.8	-	0.0	-	0.0
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	-	0.0	-	0.0
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	5.2	-	0.0
130.0	55.0	0.0	0.0	0.0	0.0	0.0	-	-	-	6.7	-	-
130.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	26.5	-	0.0
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	26.1	-	0.0	-	0.0
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	-	5.9	-	0.0
157.0	10.0	-	-	-	-	-	-	-	-	-	-	12.5
157.0	20.0	-	-	-	-	-	-	-	-	-	-	5.7

Scombridae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0	60.0	0.0	0.0	0.0	0.0	0.0	9.8	0.0	-	0.0	-	0.0

Auxis spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	-	0.0	-	0.0

Scomber japonicus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	40.0	0.0	0.0	0.0	0.0	0.0	12.7	-	0.0	0.0	-	0.0
83.0	43.0	0.0	0.0	0.0	0.0	0.0	2.9	-	0.0	0.0	-	0.0
83.0	48.0	0.0	0.0	0.0	0.0	0.0	2.4	-	0.0	0.0	-	0.0
83.0	51.0	0.0	0.0	0.0	0.0	0.0	11.3	-	0.0	0.0	-	0.0
83.0	60.0	0.0	0.0	0.0	0.0	13.7	0.0	-	0.0	0.0	-	0.0
85.0	40.0	0.0	0.0	0.0	0.0	-	2.5	-	0.0	0.0	-	0.0
85.0	45.0	0.0	0.0	0.0	0.0	0.0	2.5	-	0.0	0.0	-	0.0
87.0	35.0	0.0	0.0	0.0	0.0	0.0	4.5	-	0.0	0.0	-	0.0
87.0	40.0	0.0	0.0	0.0	0.0	0.0	8.7	-	0.0	0.0	-	0.0
90.0	37.0	0.0	0.0	0.0	0.0	0.0	41.7	-	0.0	0.0	-	0.0
90.0	60.0	0.0	0.0	0.0	0.0	3.4	0.0	-	0.0	0.0	-	0.0
90.0	80.0	0.0	-	0.0	0.0	3.4	-	-	0.0	-	-	-

TABLE 4. (cont.)

Scomber japonicus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
93.0	27.0	0.0	0.0	0.0	0.0	19.0	0.0	-	0.0	0.0	-	0.0
93.0	70.0	-	0.0	0.0	2.0	0.0	-	-	-	-	-	-
97.0	40.0	0.0	0.0	0.0	0.0	2.8	0.0	-	0.0	0.0	-	0.0
97.0	45.0	-	-	0.0	5.3	0.0	0.0	-	0.0	0.0	-	-
97.0	90.0	-	-	0.0	0.0	2.6	-	-	-	-	-	-
100.0	30.0	0.0	0.0	0.0	0.0	5.3	2.4	-	0.0	0.0	-	0.0
100.0	40.0	0.0	0.0	0.0	0.0	3.1	0.0	-	0.0	0.0	-	0.0
100.0	45.0	-	0.0	0.0	0.0	3.0	3.4	-	0.0	0.0	-	-
100.0	60.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	-	0.0
103.0	30.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	-	0.0	-	0.0
107.0	32.0	0.0	0.0	0.0	0.0	2.9	3.5	0.0	-	0.0	-	0.0
107.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	-	0.0	-	0.0
107.0	45.0	0.0	0.0	0.0	0.0	6.1	-	-	-	-	-	-
107.0	60.0	0.0	0.0	0.0	0.0	2.4	-	-	-	-	-	-
107.0	80.0	-	-	0.0	4.1	-	-	-	-	-	-	-
110.0	33.0	0.0	0.0	0.0	0.0	0.0	11.0	0.0	-	0.0	-	0.0
110.0	35.0	0.0	2.7	0.0	0.0	0.0	2.9	0.0	-	0.0	-	0.0
110.0	45.0	0.0	0.0	0.0	0.0	12.2	0.0	0.0	-	0.0	-	-
110.0	50.0	0.0	0.0	3.0	0.0	6.1	0.0	0.0	-	0.0	-	0.0
110.0	55.0	-	0.0	3.0	6.7	0.0	-	-	-	-	-	-
110.0	80.0	0.0	0.0	3.2	3.5	0.0	-	-	-	-	-	-
113.0	37.5	-	0.0	0.0	2.7	0.0	-	-	-	-	-	-
113.0	42.5	-	0.0	0.0	0.0	87.1	-	-	-	-	-	-
113.0	45.0	0.0	0.0	0.0	0.0	117.8	-	-	-	-	-	-
113.0	47.5	-	0.0	0.0	0.0	102.8	-	-	-	-	-	-
113.0	50.0	0.0	0.0	0.0	0.0	8.0	-	-	-	-	-	0.0
113.0	55.0	-	0.0	0.0	0.0	3.1	-	-	-	-	-	-
117.0	26.0	-	0.0	0.0	0.0	0.0	0.0	0.0	-	2.6	-	0.0
117.0	32.5	-	0.0	0.0	0.0	2.9	-	-	-	-	-	-
117.0	37.5	-	0.0	33.4	3.2	2.7	0.0	-	-	0.0	-	0.0
117.0	40.0	0.0	0.0	3.7	0.0	0.0	-	2.9	-	-	-	-
117.0	47.5	-	0.0	2.9	4.8	0.0	-	-	-	-	-	-
117.0	55.0	0.0	0.0	0.0	0.0	44.5	-	-	-	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.4	-	0.0
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4	-	20.6	-	0.0
120.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	-	0.0	-	0.0
120.0	37.5	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-
120.0	45.0	0.0	0.0	3.9	2.0	0.0	0.0	43.9	-	0.0	-	0.0
120.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	11.8	-	0.0
120.0	55.0	0.0	0.0	0.0	5.9	0.0	-	-	-	-	-	-
120.0	60.0	0.0	0.0	6.6	13.7	0.0	0.0	0.0	-	3.7	-	0.0
120.0	80.0	0.0	0.0	-	3.5	0.0	0.0	0.0	-	0.0	-	0.0
123.0	37.0	0.0	0.0	0.0	0.0	0.0	2.6	5.5	-	0.0	-	0.0
123.0	40.0	0.0	0.0	7.4	0.0	0.0	0.0	3.3	-	0.0	-	0.0
123.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	30.3	-	2.9	-	0.0
123.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	9.7	-	0.0

TABLE 4. (cont.)

Scomber japonicus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0	55.0	-	0.0	0.0	3.2	0.0	-	-	-	0.0	-	0.0
123.0	60.0	-	0.0	0.0	5.7	0.0	-	-	-	-	-	-
123.0	34.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	-	-	-	0.0
127.0	37.0	-	0.0	0.0	2.9	0.0	-	-	-	-	-	-
127.0	40.0	0.0	0.0	0.0	0.0	-	0.0	5.7	-	0.0	-	0.0
127.0	42.5	-	0.0	4.2	0.0	0.0	-	-	-	-	-	-
127.0	45.0	-	0.0	6.8	0.0	0.0	0.0	5.9	-	0.0	-	0.0
127.0	50.0	0.0	0.0	0.0	3.2	0.0	5.8	5.6	-	0.0	-	0.0
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	-	0.0	-	0.0
130.0	35.0	0.0	20.3	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	40.0	0.0	17.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	45.0	-	2.5	0.0	0.0	0.0	0.0	10.3	-	0.0	-	-
130.0	50.0	0.0	0.0	3.1	0.0	0.0	12.3	0.0	-	0.0	-	0.0
130.0	60.0	0.0	0.0	0.0	0.0	0.0	19.5	0.0	-	0.0	-	0.0
133.0	25.0	7.6	0.0	5.6	0.0	0.0	0.0	47.0	-	0.0	-	0.0
133.0	30.0	0.0	2.3	0.0	0.0	2.7	0.0	0.0	-	0.0	-	0.0
133.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	-	-	-	-
137.0	23.0	2.8	20.1	0.0	0.0	1.9	0.0	0.0	-	7.8	-	9.2
137.0	30.0	62.4	83.1	0.0	0.0	0.0	0.0	0.0	-	5.9	-	0.0
140.0	30.0	2.9	-	-	-	-	-	-	-	-	-	0.0
143.0	26.0	8.1	-	-	-	-	-	-	-	-	-	0.0
143.0	35.0	2.9	-	-	-	-	-	-	-	-	-	0.0
147.0	20.0	92.4	-	-	-	-	-	-	-	-	-	76.6
147.0	25.0	462.0	-	-	-	-	-	-	-	-	-	0.0
147.0	30.0	149.8	-	-	-	-	-	-	-	-	-	0.0
150.0	19.0	360.7	-	-	-	-	-	-	-	-	-	0.0
150.0	30.0	15.5	-	-	-	-	-	-	-	-	-	0.0

Trichiuridae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	60.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	-	0.0	-	0.0
103.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	2.9
110.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	-	0.0	-	0.0
110.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	0.0	-	0.0
110.0	80.0	0.0	0.0	0.0	0.0	2.8	-	-	-	-	-	-
113.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	-	0.0	-	0.0
117.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	-	0.0	-	0.0
120.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	17.3	-	0.0
120.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.9	-	0.0
120.0	60.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.7	-	0.0
123.0	37.0	0.0	2.5	0.0	0.0	0.0	0.0	2.7	-	0.0	-	0.0
123.0	42.0	3.1	-	-	-	-	-	-	-	-	-	-
123.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	3.0

TABLE 4. (cont.)

Trichiuridae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
123.0	60.0	0.0	0.0	2.8	0.0	0.0	-	-	-	-	-	-
127.0	40.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0	-	0.0
127.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	17.7	-	0.0	-	0.0
127.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	6.3	-	0.0
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	-	1.6	-	0.0
130.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	20.8	-	9.1
130.0	45.0	0.0	0.0	0.0	0.0	0.0	2.7	3.4	-	0.0	-	-
130.0	50.0	0.0	0.0	0.0	0.0	0.0	3.1	7.2	-	0.0	-	0.0
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	33.9	-	0.0	-	0.0
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	76.8	-	3.7	-	0.0
133.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	-	-	-	0.0
137.0	30.0	0.0	2.8	0.0	0.0	0.0	0.0	2.7	-	0.0	-	0.0
137.0	35.0	-	0.0	0.0	3.2	0.0	-	-	-	-	-	-

Sphyræna argentea

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.9	0.0	-	0.0
87.0	55.0	0.0	2.9	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	30.0	0.0	0.0	0.0	0.0	2.7	0.0	-	0.0	0.0	-	0.0
123.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	-	0.0	-	0.0
133.0	35.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	-	-	-	-
137.0	30.0	0.0	0.0	0.0	0.0	0.0	11.6	0.0	-	0.0	-	0.0

Icichthys lockingtoni

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0	80.0	-	-	-	-	13.6	-	-	-	-	-	-
50.0	90.0	-	-	-	-	6.2	-	-	-	-	-	-
60.0	60.0	-	-	0.0	2.8	19.0	0.0	0.0	-	-	-	-
60.0	70.0	-	-	0.0	0.0	34.3	20.6	0.0	-	-	-	-
60.0	80.0	-	-	0.0	0.0	0.0	3.0	-	0.0	-	-	-
60.0	90.0	-	-	0.0	6.7	0.0	2.7	-	0.0	-	-	-
60.0	100.0	-	-	-	-	0.0	2.3	-	4.2	-	-	-
63.0	55.0	-	-	0.0	0.0	0.0	10.7	13.1	-	-	-	-
67.0	55.0	-	-	0.0	0.0	0.0	38.9	0.0	-	-	-	-
67.0	65.0	-	-	-	-	0.0	4.6	0.0	-	-	-	-
70.0	52.0	-	-	-	-	11.2	0.0	-	0.0	-	-	-
70.0	55.0	-	-	0.0	0.0	0.0	5.7	-	0.0	-	-	-
70.0	60.0	-	-	2.8	0.0	9.7	0.0	-	0.0	-	-	-
70.0	70.0	-	-	0.0	0.0	6.2	0.0	-	0.0	-	-	-
70.0	80.0	-	-	-	0.0	0.0	0.0	-	2.6	-	-	-
70.0	90.0	-	-	0.0	2.7	0.0	-	-	-	-	-	-
73.0	60.0	-	-	0.0	11.5	5.9	-	-	0.0	-	-	-

TABLE 4. (cont.)

Icichthys lockingtoni (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0	50.0	8.9	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-
77.0	55.0	2.5	0.0	0.0	0.0	0.0	11.7	-	0.0	11.7	-	-
77.0	65.0	-	-	5.2	0.0	-	31.6	-	0.0	-	-	-
80.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0	60.0	8.7	0.0	0.0	9.9	22.7	9.1	-	0.0	0.0	-	0.0
80.0	70.0	0.0	0.0	2.9	0.0	-	5.0	-	0.0	0.0	-	0.0
80.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	48.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	3.6
83.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.3	0.0	-	0.0
83.0	60.0	2.4	0.0	2.9	0.0	95.8	0.0	-	0.0	0.0	-	3.0
83.0	70.0	2.4	0.0	0.0	0.0	31.7	36.8	-	0.0	0.0	-	0.0
83.0	80.0	-	-	0.0	0.0	12.9	-	-	-	-	-	-
83.0	90.0	-	-	0.0	5.0	0.0	-	-	-	-	-	-
85.0	39.0	-	0.0	0.0	1.6	0.0	-	-	0.0	0.0	-	0.0
85.0	50.0	5.5	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0	55.0	0.0	3.4	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0	60.0	0.0	0.0	10.4	4.4	24.7	14.3	-	0.0	0.0	-	0.0
87.0	40.0	0.0	0.0	0.0	3.5	0.0	0.0	-	0.0	0.0	-	0.0
87.0	45.0	0.0	0.0	0.0	0.0	0.0	4.0	-	0.0	0.0	-	0.0
87.0	50.0	0.0	0.0	0.0	1.9	0.0	0.0	-	0.0	0.0	-	2.6
87.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	9.5
87.0	60.0	0.0	0.0	17.3	14.8	9.6	0.0	-	0.0	0.0	-	0.0
87.0	70.0	-	-	4.9	0.0	-	-	-	-	-	-	-
87.0	80.0	-	-	0.0	0.0	4.7	-	-	-	-	-	-
90.0	28.0	0.0	0.0	0.0	0.0	0.0	2.6	-	0.0	0.0	-	0.0
90.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	45.0	0.0	0.0	1.5	5.2	0.0	0.0	-	0.0	0.0	-	0.0
90.0	50.0	-	-	-	4.8	0.0	-	-	-	0.0	-	0.0
90.0	55.0	-	0.0	0.0	0.0	3.3	13.8	-	0.0	0.0	-	-
90.0	60.0	9.7	0.0	0.0	18.2	6.8	0.0	-	0.0	0.0	-	2.9
90.0	70.0	0.0	0.0	0.0	0.0	12.5	0.0	-	0.0	0.0	-	0.0
90.0	80.0	0.0	-	2.9	0.0	20.2	-	-	-	-	-	-
90.0	110.0	5.5	-	-	-	-	-	-	-	-	-	-
93.0	27.0	0.0	0.0	0.0	0.0	6.3	0.0	-	0.0	0.0	-	0.0
93.0	45.0	-	-	0.0	0.0	0.0	14.6	-	0.0	0.0	-	-
93.0	50.0	0.0	-	0.0	7.7	0.0	0.0	-	0.0	0.0	-	0.0
93.0	70.0	-	2.0	0.0	6.1	0.0	-	-	-	-	-	-
97.0	30.0	0.0	5.0	3.8	0.0	0.0	0.0	-	0.0	0.0	-	0.0
97.0	50.0	0.0	0.0	3.3	0.0	0.0	0.0	-	0.0	0.0	-	3.5
97.0	60.0	0.0	4.7	0.0	0.0	0.0	-	-	-	-	-	-
97.0	80.0	-	-	3.1	0.0	5.4	-	-	-	-	-	-
100.0	29.0	0.0	0.0	2.9	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	35.0	-	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-

TABLE 4. (cont.)

Icichthys lockingtoni (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	45.0	-	0.0	0.0	0.0	0.0	0.0	-	3.0	0.0	-	-
100.0	50.0	3.0	0.0	0.0	0.0	0.0	0.0	-	2.7	0.0	-	-
100.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
100.0	70.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	-	0.0	-	0.0
103.0	40.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
103.0	45.0	-	3.0	0.0	0.0	0.0	-	-	-	-	-	-
103.0	60.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	0.0
107.0	32.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	-	0.0	-	0.0
107.0	40.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	-	0.0	-	0.0
107.0	55.0	-	3.3	0.0	0.0	0.0	-	-	-	-	-	-
107.0	60.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	60.0	0.0	3.1	0.0	0.0	0.0	-	-	-	-	-	-
113.0	45.0	-	0.0	0.0	0.0	0.0	-	-	-	-	-	0.0
113.0	60.0	-	0.0	0.0	0.0	0.0	-	-	-	-	-	-
117.0	42.5	-	0.0	2.8	0.0	0.0	-	-	-	-	-	-
117.0	45.0	-	0.0	2.7	0.0	0.0	-	-	-	-	-	-
117.0	55.0	-	2.7	0.0	0.0	0.0	-	-	-	3.0	-	0.0
123.0	55.0	-	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	2.3
127.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	4.9
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	-

Peprilus similimus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0	65.0	-	-	0.0	0.0	-	10.5	-	0.0	-	-	-
80.0	51.0	0.0	0.0	0.0	0.0	0.0	2.0	-	0.0	0.0	-	0.0
83.0	43.0	0.0	0.0	0.0	0.0	0.0	8.7	-	0.0	0.0	-	0.0
83.0	48.0	0.0	0.0	0.0	0.0	0.0	7.3	-	0.0	0.0	-	0.0
83.0	51.0	0.0	0.0	0.0	0.0	0.0	1.9	-	0.0	0.0	-	0.0
87.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	2.6
90.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
103.0	30.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	2.8	0.0	-	0.0
110.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	4.7
117.0	26.0	-	0.0	0.0	0.0	0.0	2.4	0.0	-	0.0	-	0.0
120.0	25.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	27.5	-	-	3.3	2.9	0.0	-	-	-	-	-	-
120.0	30.0	2.3	0.0	0.0	8.9	0.0	0.0	0.0	-	0.0	-	0.0
120.0	32.5	-	15.3	0.0	5.2	0.0	-	-	-	-	-	-
120.0	37.5	-	12.1	0.0	0.0	0.0	-	-	-	-	-	-
120.0	40.0	-	24.5	0.0	0.0	0.0	-	-	-	-	-	0.0
120.0	45.0	0.0	10.4	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	47.5	-	5.7	0.0	0.0	0.0	-	-	-	-	-	-
123.0	40.0	0.0	0.0	22.1	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0	42.5	-	0.0	6.3	0.0	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

Peprilus similimus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
127.0 40.0	0.0	0.0	0.0	3.7	0.0	-	0.0	0.0	-	0.0	-	0.0
127.0 42.5	-	-	0.0	8.4	0.0	3.2	-	-	-	-	-	-
127.0 45.0	-	0.0	0.0	3.4	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	-	0.0	-	0.0
130.0 30.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0 45.0	-	0.0	0.0	0.0	0.0	0.0	2.7	0.0	-	0.0	-	-
133.0 25.0	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	-	0.0	-	0.0
137.0 23.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	14.6
137.0 30.0	0.0	0.0	2.8	0.0	0.0	0.0	5.8	0.0	-	0.0	-	0.0

Tetragonurus cuvieri

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0 60.0	-	-	-	-	-	2.9	-	-	-	-	-	-
50.0 70.0	-	-	-	-	-	14.1	-	-	-	-	-	-
80.0 90.0	0.0	-	0.0	0.0	0.0	0.0	0.0	-	0.0	3.1	-	0.0
80.0 100.0	0.0	-	-	-	-	2.8	-	-	0.0	-	-	-
83.0 43.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	-	0.0	0.0	-	0.0
97.0 55.0	-	-	-	0.0	0.0	2.7	-	-	-	0.0	-	-
117.0 70.0	-	-	-	3.0	0.0	0.0	-	-	-	-	-	-
120.0 80.0	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	-	3.0
130.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	-	0.0	-	0.0
137.0 60.0	-	-	-	0.0	4.9	-	-	-	-	-	-	-

Chiasmodontidae

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0 90.0	-	-	-	2.8	0.0	0.0	-	-	-	-	-	-
100.0 60.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	-	0.0	-	0.0
100.0 90.0	0.0	-	2.3	0.0	0.0	0.0	-	-	-	0.0	-	0.0
103.0 55.0	-	-	0.0	0.0	0.0	3.0	-	-	-	-	-	-
103.0 80.0	-	-	-	3.2	3.4	0.0	-	-	-	-	-	-
107.0 50.0	-	0.0	0.0	0.0	3.3	0.0	-	-	-	-	-	-
107.0 70.0	-	-	-	0.0	3.5	0.0	-	-	-	-	-	-
110.0 50.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	3.1	-	0.0	-	0.0
110.0 55.0	-	-	0.0	0.0	6.7	0.0	-	-	-	0.0	-	-
110.0 60.0	0.0	0.0	0.0	0.0	10.5	0.0	0.0	5.9	-	0.0	-	0.0
110.0 90.0	0.0	-	-	2.8	0.0	-	-	-	-	-	-	-
110.0 100.0	2.3	-	-	-	-	-	-	-	-	-	-	-
113.0 37.5	-	-	2.5	0.0	0.0	0.0	-	-	-	-	-	-
113.0 42.5	-	-	0.0	0.0	0.0	2.8	-	-	-	-	-	-
113.0 55.0	-	-	0.0	0.0	2.8	3.1	-	-	-	-	-	-
113.0 60.0	-	0.0	0.0	0.0	5.9	0.0	-	-	-	-	-	0.0

TABLE 4. (cont.)

Chiasmodontidae (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0 47.5	-	-	0.0	0.0	0.0	3.0	-	-	-	-	-	-
117.0 50.0	0.0	0.0	2.3	0.0	0.0	0.0	-	-	-	-	-	0.0
120.0 47.5	-	-	0.0	0.0	0.0	5.3	-	-	-	-	-	-
120.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	-	0.0	-	0.0
120.0 70.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	-	0.0	-	0.0
120.0 80.0	0.0	0.0	0.0	-	0.0	0.0	0.0	2.8	-	0.0	-	0.0
123.0 45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	3.0	-	0.0	-	0.0
127.0 45.0	-	0.0	0.0	0.0	3.1	0.0	0.0	0.0	-	0.0	-	0.0
130.0 45.0	-	0.0	0.0	0.0	0.0	3.1	0.0	0.0	-	0.0	-	0.0
130.0 50.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0 35.0	-	0.0	0.0	0.0	0.0	0.0	0.0	3.3	-	-	-	-

Pleuronectiformes

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0 80.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
82.0 47.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0 43.0	2.8	0.0	0.0	4.3	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0 48.0	0.0	0.0	0.0	0.0	55.6	0.0	0.0	-	0.0	0.0	-	0.0
83.0 51.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0 70.0	-	-	-	2.1	0.0	0.0	-	-	-	-	-	-
85.0 40.0	0.0	0.0	0.0	16.6	0.0	-	0.0	-	0.0	0.0	-	0.0
85.0 60.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0 35.0	1.4	2.7	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0 40.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	0.0	0.0	-	0.0
90.0 60.0	4.9	0.0	4.6	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
93.0 27.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
93.0 60.0	3.8	0.0	-	0.0	0.0	0.0	-	-	-	-	-	-
97.0 30.0	1.3	2.3	0.0	0.0	0.0	0.0	28.3	-	0.0	0.0	-	0.0
97.0 32.0	0.0	5.0	0.0	-	0.0	0.0	0.0	-	0.0	0.0	-	0.0
107.0 40.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
110.0 33.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0 35.0	0.0	0.0	16.3	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
117.0 26.0	0.0	-	0.0	11.4	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0 27.5	-	-	-	0.0	0.0	4.8	-	-	-	-	-	-
120.0 35.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0 42.5	-	6.2	0.0	0.0	0.0	0.0	-	-	-	-	-	-
120.0 47.5	-	-	0.0	6.5	0.0	0.0	-	-	-	-	-	-
120.0 50.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0 34.0	0.0	7.9	6.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0 45.0	-	6.1	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0 50.0	20.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0 30.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0 40.0	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0

TABLE 4. (cont.)

Pleuronectiformes (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0	25.0	0.0	13.4	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0	30.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
137.0	30.0	8.9	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
140.0	30.0	17.5	-	-	-	-	-	-	-	-	-	0.0
143.0	35.0	2.9	-	-	-	-	-	-	-	-	-	0.0
147.0	20.0	44.8	-	-	-	-	-	-	-	-	-	0.0
147.0	25.0	61.6	-	-	-	-	-	-	-	-	-	0.0
147.0	30.0	3.1	-	-	-	-	-	-	-	-	-	0.0
150.0	30.0	9.3	-	-	-	-	-	-	-	-	-	0.0

Bothus spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0	60.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
137.0	40.0	0.0	0.0	0.0	0.0	3.1	-	-	-	-	-	-
147.0	25.0	12.3	-	-	-	-	-	-	-	-	-	0.0

Citharichthys spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
70.0	55.0	-	-	0.0	4.8	0.0	0.0	-	0.0	-	-	-
77.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	24.0	0.0	-	-
77.0	65.0	-	-	0.0	0.0	-	21.0	-	0.0	-	-	-
80.0	55.0	2.0	0.0	0.0	0.0	0.0	4.8	-	0.0	0.0	-	0.0
80.0	70.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	3.7	-	0.0
83.0	40.0	0.0	6.0	0.0	0.0	0.0	6.3	-	0.0	0.0	-	0.0
83.0	43.0	0.0	0.0	0.0	0.0	0.0	2.9	-	2.7	2.6	-	0.0
83.0	51.0	0.0	0.0	0.0	0.0	0.0	1.9	-	0.0	0.0	-	0.0
83.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	60.0	2.4	0.0	0.0	17.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0	40.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0
85.0	45.0	0.0	0.0	0.0	0.0	0.0	5.0	-	4.9	0.0	-	0.0
85.0	50.0	0.0	0.0	0.0	0.0	0.0	2.8	-	0.0	0.0	-	0.0
85.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	15.9	0.0	-	0.0
87.0	35.0	0.0	0.0	0.0	0.0	0.0	4.5	-	0.0	0.0	-	0.0
87.0	45.0	0.0	0.0	0.0	0.0	0.0	4.0	-	0.0	0.0	-	0.0
90.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	-	37.9	0.0	-	0.0
90.0	33.5	-	-	-	0.0	2.0	-	-	-	-	-	-
90.0	41.0	-	-	-	0.0	2.3	-	-	-	-	-	-
90.0	50.0	-	-	-	0.0	4.9	-	-	-	0.0	-	0.0
90.0	55.0	-	0.0	0.0	0.0	0.0	6.9	-	0.0	0.0	-	0.0
93.0	27.0	0.0	9.9	0.0	0.0	0.0	11.2	-	0.0	0.0	-	0.0
93.0	50.0	0.0	-	0.0	0.0	0.0	12.8	-	0.0	0.0	-	0.0

TABLE 4. (cont.)

Citharichthys spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
97.0	32.0	10.4	0.0	0.0	0.0	0.0	0.0	-	0.0	3.7	-	3.2
100.0	29.0	2.7	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	30.0	0.0	0.0	0.0	0.0	0.0	2.4	-	2.8	0.0	-	3.0
100.0	45.0	-	0.0	0.0	0.0	3.0	0.0	-	0.0	0.0	-	-
103.0	30.0	2.9	0.0	0.0	0.0	0.0	3.3	10.9	-	5.6	-	0.0
103.0	35.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
103.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	5.8	-	0.0
107.0	32.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	35.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	-	0.0	-	0.0
117.0	26.0	2.5	0.0	5.7	0.0	0.0	2.4	9.3	-	2.6	-	0.0
117.0	28.0	-	0.0	16.2	0.0	0.0	-	-	-	-	-	-
117.0	30.0	2.8	0.0	15.5	2.3	0.0	0.0	8.8	-	0.0	-	0.0
117.0	32.5	-	0.0	25.4	0.0	0.0	-	-	-	-	-	-
117.0	35.0	0.0	0.0	13.1	0.0	0.0	0.0	13.0	-	0.0	-	0.0
117.0	37.5	-	0.0	5.6	0.0	0.0	0.0	-	-	-	-	-
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	-	0.0	-	6.4
117.0	55.0	0.0	8.2	0.0	0.0	0.0	-	-	-	-	-	-
120.0	25.0	0.0	13.2	0.0	2.1	2.3	20.5	13.7	-	0.0	-	0.0
120.0	27.5	-	-	0.0	5.7	14.3	-	-	-	-	-	-
120.0	30.0	0.0	0.0	10.8	0.0	0.0	3.8	9.9	-	0.0	-	0.0
120.0	32.5	-	1.5	0.0	0.0	5.3	-	-	-	-	-	-
120.0	35.0	0.0	0.0	0.0	2.4	0.0	12.6	0.0	-	0.0	-	0.0
120.0	37.5	24.0	0.0	0.0	2.0	0.0	-	-	-	-	-	-
120.0	40.0	-	0.0	0.0	0.0	0.0	-	-	-	-	-	3.0
120.0	42.5	0.0	0.0	0.0	3.3	2.5	-	-	-	-	-	-
120.0	45.0	0.0	0.0	38.9	0.0	0.0	3.8	0.0	-	0.0	-	0.0
120.0	47.5	-	0.0	427.7	0.0	0.0	-	-	-	-	-	-
120.0	50.0	0.0	0.0	67.5	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	55.0	-	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
120.0	60.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	-	0.0	-	0.0
120.0	70.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	-	2.7	-	0.0
120.0	90.0	-	0.0	0.0	10.5	0.0	0.0	0.0	-	0.0	-	0.0
123.0	37.0	0.0	0.0	0.0	14.0	0.0	23.0	2.7	-	0.0	-	0.0
123.0	40.0	0.0	0.0	0.0	6.8	4.3	0.0	0.0	-	0.0	-	0.0
123.0	42.5	-	0.0	6.3	0.0	0.0	-	-	-	-	-	-
123.0	45.0	-	0.0	0.0	13.2	0.0	5.7	0.0	-	2.9	-	0.0
123.0	50.0	0.0	0.0	0.0	12.6	2.7	0.0	0.0	-	0.0	-	0.0
127.0	34.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	-	-	-	0.0
127.0	37.0	-	0.0	0.0	8.6	4.8	-	-	-	-	-	-
127.0	40.0	7.0	0.0	0.0	0.0	-	0.0	25.5	-	0.0	-	0.0
127.0	42.5	-	0.0	8.4	0.0	0.0	-	-	-	-	-	-
127.0	45.0	-	0.0	0.0	0.0	0.0	0.0	14.8	-	0.0	-	0.0
127.0	50.0	0.0	0.0	0.0	0.0	0.0	17.4	155.7	-	0.0	-	0.0
130.0	30.0	0.0	0.0	0.0	0.0	2.2	0.0	35.9	-	0.0	-	0.0
130.0	35.0	11.1	0.0	0.0	0.0	0.0	0.0	16.2	-	0.0	-	0.0

TABLE 4. (cont.)

Citharichthys spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
130.0	40.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	-	0.0	-	0.0
130.0	45.0	0.0	12.4	0.0	0.0	0.0	2.7	3.4	-	0.0	-	-
130.0	50.0	0.0	2.5	0.0	0.0	0.0	12.3	0.0	-	0.0	-	0.0
130.0	60.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	-	0.0	-	0.0
133.0	25.0	0.0	0.0	0.0	2.3	0.0	0.0	18.3	-	3.6	-	0.0
133.0	30.0	0.0	0.0	29.5	0.0	2.7	0.0	0.0	-	0.0	-	0.0
133.0	35.0	0.0	0.0	0.0	0.0	0.0	99.5	0.0	-	-	-	-
133.0	40.0	0.0	0.0	0.0	0.0	0.0	17.2	13.0	-	-	-	-
133.0	50.0	0.0	0.0	0.0	0.0	5.3	-	-	-	-	-	-
133.0	60.0	-	-	3.4	0.0	-	-	-	-	-	-	-
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.9	-	0.0
137.0	30.0	0.0	0.0	107.9	2.4	2.5	0.0	5.5	-	0.0	-	0.0
140.0	30.0	5.8	-	-	3.3	-	-	-	-	-	-	0.0
143.0	26.0	5.4	-	-	-	-	-	-	-	-	-	0.0
147.0	20.0	2.8	-	-	-	-	-	-	-	-	-	2.1
147.0	25.0	6.2	-	-	-	-	-	-	-	-	-	0.0
147.0	30.0	3.1	-	-	-	-	-	-	-	-	-	0.0
150.0	19.0	2.8	-	-	-	-	-	-	-	-	-	0.0

Citharichthys fragilis

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	-	3.1
90.0	50.0	-	-	-	0.0	0.0	-	-	-	0.0	-	3.3
103.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	-	13.9	-	0.0
107.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	-	0.0	-	0.0
110.0	33.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	-	0.0	-	8.6
110.0	35.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	-	0.0	-	0.0
110.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	-	0.0	-	0.0
113.0	30.0	0.0	0.0	0.0	0.0	0.0	5.7	4.8	-	0.0	-	2.4
113.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	4.7
113.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.3	-	0.0
113.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	3.4
117.0	26.0	4.9	0.0	80.1	0.0	0.0	-	92.8	-	5.2	-	2.4
117.0	28.0	-	0.0	2.7	32.3	36.4	-	-	-	-	-	-
117.0	30.0	23.3	0.0	33.7	0.0	0.0	0.0	67.4	-	3.7	-	27.6
117.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	-	11.8	-	21.3
117.0	40.0	0.0	0.0	0.0	0.0	2.6	0.0	5.8	-	8.8	-	16.1
117.0	50.0	0.0	0.0	0.0	0.0	3.0	-	-	-	-	-	0.0
120.0	25.0	0.0	0.0	188.6	12.4	0.0	0.0	50.4	-	1.2	-	1.9
120.0	27.5	-	-	158.9	117.7	0.0	0.0	-	-	-	-	-
120.0	30.0	37.1	106.4	21.7	22.3	0.0	0.0	54.3	-	18.0	-	0.0
120.0	32.5	-	30.6	57.1	15.5	0.0	0.0	-	-	-	-	-
120.0	35.0	15.8	2.8	86.4	4.8	8.5	6.3	0.0	-	11.3	-	0.0
120.0	37.5	-	6.0	18.8	7.8	34.2	-	-	-	-	-	-

TABLE 4. (cont.)

Citharichthys fragilis (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	40.0	24.2	83.3	66.4	0.0	0.0	-	-	-	-	-	0.0
120.0	42.5	18.7	24.0	422.6	29.5	0.0	-	-	-	-	-	-
120.0	45.0	35.2	20.8	7.8	0.0	0.0	23.0	40.3	-	0.0	-	0.0
120.0	47.5	-	22.7	0.0	13.0	0.0	-	-	-	-	-	-
120.0	50.0	3.1	19.0	0.0	3.9	0.0	6.9	0.0	-	3.9	-	0.0
120.0	60.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	80.0	0.0	0.0	-	7.1	0.0	0.0	0.0	-	0.0	-	0.0
120.0	90.0	-	0.0	-	3.5	0.0	0.0	0.0	-	0.0	-	0.0
123.0	37.0	9.2	0.0	24.2	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0	40.0	9.6	57.0	191.4	27.3	0.0	0.0	5.5	-	0.0	-	0.0
123.0	42.0	6.2	-	-	-	0.0	0.0	16.6	-	0.0	-	0.0
123.0	42.5	-	0.0	170.1	9.5	0.0	-	-	-	-	-	-
123.0	45.0	9.1	0.0	62.1	10.6	0.0	0.0	9.1	-	0.0	-	0.0
123.0	47.5	-	0.0	11.6	3.3	0.0	-	-	-	-	-	-
123.0	50.0	0.0	0.0	3.6	12.6	0.0	0.0	0.0	-	0.0	-	0.0
123.0	55.0	-	4.5	3.6	6.5	0.0	-	-	-	0.0	-	0.0
123.0	60.0	-	2.3	0.0	8.6	0.0	17.7	0.0	-	-	-	0.0
127.0	34.0	0.0	0.0	95.5	0.0	0.0	-	-	-	-	-	-
127.0	37.0	-	8.5	84.4	0.0	0.0	-	0.0	-	-	-	-
127.0	40.0	0.0	0.0	137.6	11.7	-	14.5	25.5	-	0.0	-	0.0
127.0	42.5	-	0.0	33.7	0.0	0.0	-	-	-	-	-	-
127.0	45.0	0.0	0.0	20.5	0.0	0.0	16.6	44.3	-	0.0	-	0.0
127.0	50.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	-	0.0	-	0.0
127.0	60.0	-	0.0	23.7	0.0	0.0	-	-	-	-	-	-
130.0	30.0	2.8	0.0	0.0	3.5	2.2	0.0	0.0	-	0.0	-	0.0
130.0	35.0	3.2	0.0	26.4	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	40.0	0.0	0.0	14.1	2.7	0.0	0.0	0.0	-	0.0	-	0.0
130.0	45.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0	50.0	0.0	0.0	0.0	0.0	0.0	21.6	0.0	-	0.0	-	0.0
130.0	60.0	0.0	0.0	0.0	0.0	0.0	6.5	0.0	-	0.0	-	0.0
133.0	25.0	4.5	0.0	11.2	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0	30.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	-	0.0	-	0.0
133.0	35.0	0.0	0.0	0.0	6.2	0.0	17.1	0.0	-	-	-	-
133.0	40.0	0.0	0.0	0.0	3.0	0.0	23.0	8.6	-	-	-	-
137.0	23.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	7.3
137.0	30.0	0.0	0.0	0.0	0.0	0.0	17.4	8.2	-	0.0	-	0.0

Citharichthys sordidus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	55.0	-	-	0.0	0.0	0.0	0.0	100.0	-	-	-	-
60.0	70.0	-	-	0.0	0.0	0.0	0.0	43.0	-	-	-	-
60.0	80.0	-	-	0.0	0.0	0.0	3.0	-	0.0	-	-	-
60.0	90.0	-	-	2.3	0.0	0.0	0.0	-	0.0	-	-	-
60.0	100.0	-	-	-	-	0.0	0.0	-	4.2	-	-	-

TABLE 4. (cont.)

Citharichthys sordidus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
63.0	52.0	-	-	0.0	0.0	0.0	0.0	62.5	-	-	-	-
63.0	55.0	-	-	0.0	0.0	0.0	0.0	13.1	-	-	-	-
67.0	55.0	-	-	0.0	0.0	0.0	0.0	9.9	-	-	-	-
73.0	55.0	-	-	-	-	-	-	-	27.8	-	-	-
77.0	50.0	0.0	0.0	0.0	0.0	0.0	12.3	-	0.0	5.7	-	-
77.0	55.0	0.0	0.0	0.0	0.0	0.0	11.7	-	0.0	3.9	-	-
77.0	65.0	-	-	0.0	0.0	0.0	42.1	-	2.7	-	-	-
80.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0	55.0	2.8	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	9.9	-	0.0
80.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	3.7	-	2.6
80.0	80.0	3.0	0.0	0.0	0.0	0.0	0.0	-	0.0	15.7	-	2.8
80.0	90.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	3.1	-	0.0
82.0	47.0	5.9	0.0	0.0	0.0	0.0	0.0	-	0.0	3.1	-	0.0
83.0	40.0	2.2	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	1.5
83.0	43.0	0.0	2.5	0.0	0.0	0.0	5.8	-	2.7	0.0	-	0.0
83.0	51.0	5.3	0.0	0.0	0.0	0.0	3.8	-	0.0	6.9	-	3.2
83.0	55.0	9.7	0.0	0.0	0.0	0.0	0.0	-	3.3	0.0	-	3.0
83.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	15.9	0.0	-	2.9
83.0	80.0	-	-	2.9	0.0	0.0	-	-	-	-	-	-
85.0	40.0	2.7	5.1	0.0	0.0	0.0	0.0	-	0.0	0.0	-	2.9
85.0	45.0	5.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	3.1
85.0	50.0	0.0	3.3	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0	55.0	2.7	0.0	0.0	0.0	0.0	0.0	-	0.0	3.8	-	0.0
85.0	60.0	2.2	0.0	0.0	0.0	0.0	0.0	-	6.4	0.0	-	0.0
87.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	40.0	1.5	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	45.0	0.0	6.8	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	50.0	0.0	2.9	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	55.0	2.2	0.0	0.0	0.0	0.0	0.0	-	2.4	0.0	-	0.0
87.0	60.0	2.3	0.0	0.0	0.0	0.0	0.0	-	2.6	10.8	-	0.0
90.0	37.0	0.0	0.0	0.0	0.0	2.0	0.0	-	2.5	14.9	-	0.0
90.0	45.0	0.0	0.0	0.0	0.0	2.4	0.0	-	0.0	0.0	-	3.3
90.0	60.0	9.7	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	70.0	2.3	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	2.9
93.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
93.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	2.9
93.0	45.0	2.7	0.0	0.0	4.9	-	14.6	-	0.0	0.0	-	0.0
93.0	50.0	0.0	-	0.0	0.0	0.0	0.0	-	0.0	0.0	-	6.5
93.0	55.0	-	-	0.0	0.0	0.0	0.0	-	0.0	3.3	-	-
93.0	60.0	-	-	0.0	0.0	0.0	-	-	-	3.2	-	-
97.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
97.0	32.0	0.0	1.5	-	0.0	0.0	0.0	-	0.0	0.0	-	0.0
97.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	3.5
100.0	29.0	0.0	0.5	0.0	0.0	0.0	0.0	-	0.0	0.0	-	3.4
100.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0

TABLE 4. (cont.)

Citharichthys sordidus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-
100.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	-
103.0	35.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	-	6.9	-	0.0
107.0	40.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	-	14.1	-	0.0
110.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	1.8	-	0.0
113.0	32.5	-	0.0	2.7	0.0	0.0	-	-	-	-	-	-
117.0	26.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	-	0.0	-	0.0
117.0	30.0	0.0	2.1	0.0	0.0	0.0	6.0	0.0	-	0.0	-	0.0
120.0	45.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	-	0.0	-	0.0
123.0	40.0	0.0	0.0	0.0	0.0	0.0	11.4	0.0	-	0.0	-	0.0

Citharichthys stigmaeus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	55.0	-	-	0.0	0.0	0.0	0.0	14.3	-	-	-	-
60.0	70.0	-	-	0.0	0.0	0.0	0.0	5.5	-	-	-	-
60.0	80.0	-	-	1.8	0.0	0.0	0.0	0.0	-	-	-	-
60.0	90.0	-	-	0.0	0.0	0.0	0.0	-	0.0	-	-	-
63.0	52.0	-	-	4.5	0.0	0.0	0.0	-	0.0	-	-	-
63.0	55.0	-	-	0.0	2.2	1.9	0.0	0.0	-	-	-	-
67.0	55.0	-	-	0.0	0.0	0.0	0.0	13.1	-	-	-	-
67.0	65.0	-	-	-	-	0.0	0.0	9.9	-	-	-	-
70.0	55.0	-	-	1.9	0.0	0.0	0.0	5.1	0.0	-	-	-
70.0	70.0	-	-	0.0	0.0	0.0	0.0	-	13.1	-	-	-
70.0	80.0	-	-	0.0	2.7	0.0	0.0	-	0.0	-	-	-
73.0	55.0	-	-	-	-	0.0	-	-	27.8	-	-	-
73.0	60.0	-	-	-	0.0	-	-	-	30.6	-	-	-
77.0	50.0	-	-	0.0	-	0.0	-	-	0.0	17.0	-	-
77.0	55.0	0.0	0.0	0.0	-	0.0	12.3	-	0.0	19.5	-	-
77.0	55.0	2.8	0.0	0.0	0.0	0.0	23.4	-	0.0	-	-	-
77.0	65.0	-	-	0.0	0.0	-	0.0	-	2.7	-	-	-
80.0	51.0	1.5	0.0	0.0	0.0	0.0	8.2	-	2.7	5.0	-	2.7
80.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	6.9
80.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0	70.0	3.5	0.0	0.0	0.0	0.0	0.0	-	11.9	13.2	-	10.4
80.0	80.0	6.6	0.0	0.0	8.4	-	0.0	-	7.6	3.7	-	2.8
80.0	90.0	0.0	0.0	2.5	0.0	0.0	0.0	-	2.8	18.8	-	0.0
80.0	90.0	0.0	2.1	0.0	0.0	0.0	0.0	-	0.0	0.0	-	19.4
82.0	47.0	3.0	0.0	0.0	0.0	0.0	0.0	-	8.2	27.8	-	3.1
83.0	40.0	1.7	0.0	0.0	0.0	0.0	0.0	-	1.9	0.0	-	5.4
83.0	43.0	0.0	12.4	0.0	0.0	0.0	11.6	-	21.6	12.8	-	0.0
83.0	48.0	2.5	13.5	0.0	0.0	0.0	4.8	-	0.0	8.0	-	0.0
83.0	51.0	2.6	3.3	0.0	0.0	0.0	7.6	-	16.0	6.9	-	6.3
83.0	55.0	2.4	30.0	0.0	0.0	0.0	0.0	-	13.4	3.4	-	17.8
83.0	60.0	0.0	2.8	0.0	0.0	0.0	0.0	-	9.5	5.9	-	11.6
83.0	70.0	-	-	4.2	0.0	0.0	-	-	-	-	-	-

TABLE 4. (cont.)

Citharichthys stigmatæus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	90.0	-	-	0.0	2.8	0.0	-	-	76.4	113.5	-	-
85.0	39.0	0.0	14.3	0.0	0.0	0.0	-	-	0.0	78.3	-	22.6
85.0	40.0	2.7	5.1	0.0	0.0	-	51.0	-	2.4	8.9	-	52.4
85.0	45.0	37.2	0.0	6.5	5.9	0.0	10.0	-	7.1	14.6	-	9.2
85.0	50.0	0.0	19.9	4.2	0.0	0.0	0.0	-	8.0	19.2	-	12.6
85.0	55.0	5.3	6.4	2.5	0.0	0.0	0.0	-	25.5	12.3	-	3.0
85.0	60.0	6.8	0.0	0.0	0.0	0.0	7.1	-	23.0	66.4	-	0.0
87.0	35.0	60.1	13.5	0.0	0.0	0.0	0.0	-	6.2	-	-	8.5
87.0	40.0	5.8	10.4	0.0	0.0	0.0	17.4	-	7.5	17.2	-	6.3
87.0	45.0	0.0	8.6	8.3	0.0	0.0	0.0	-	2.4	20.0	-	30.9
87.0	50.0	0.0	5.8	0.0	0.0	0.0	2.5	-	7.8	16.2	-	0.0
87.0	55.0	0.0	0.0	9.3	0.0	0.0	0.0	-	22.2	26.9	-	3.2
87.0	60.0	9.2	0.0	0.0	0.0	0.0	0.0	-	4.0	2.6	-	3.4
90.0	28.0	15.0	0.0	0.0	4.3	0.0	2.6	-	2.2	12.5	-	0.0
90.0	30.0	10.9	0.0	0.0	5.3	0.0	18.8	-	-	-	-	5.9
90.0	33.5	-	-	-	2.3	2.0	-	-	0.0	17.2	-	26.2
90.0	37.0	12.4	0.0	0.0	2.9	2.0	0.0	-	-	-	-	-
90.0	41.0	-	0.0	0.0	25.8	2.3	-	-	2.7	0.0	-	3.5
90.0	45.0	6.1	0.0	-	0.0	9.5	0.0	-	-	8.3	-	3.3
90.0	50.0	-	-	-	0.0	0.0	-	-	6.0	27.5	-	-
90.0	55.0	0.0	0.0	5.5	0.0	0.0	0.0	-	0.0	3.2	-	2.9
90.0	60.0	6.5	2.3	0.0	0.0	0.0	6.5	-	0.0	3.1	-	12.7
90.0	70.0	2.3	0.0	0.0	0.0	0.0	23.4	-	0.0	5.8	-	3.1
93.0	27.0	0.0	0.0	0.0	0.0	0.0	22.3	-	15.3	26.6	-	14.4
93.0	30.0	0.0	0.0	0.0	0.0	5.1	4.8	-	10.7	-	-	-
93.0	35.0	-	-	14.5	0.0	0.0	0.0	-	3.0	65.3	-	6.4
93.0	40.0	0.0	0.0	0.0	0.0	-	0.0	-	2.2	84.5	-	0.0
93.0	45.0	-	-	2.9	5.5	2.5	0.0	-	8.9	12.9	-	-
93.0	50.0	0.0	-	0.0	0.0	0.0	4.3	-	-	-	-	-
93.0	55.0	-	-	4.0	7.9	0.0	-	-	-	-	-	-
93.0	80.0	-	-	3.0	0.0	-	-	-	-	-	-	-
97.0	30.0	2.3	7.5	0.0	0.0	5.4	28.3	-	0.0	12.7	-	2.3
97.0	32.0	2.5	4.6	-	7.2	0.0	2.8	-	0.0	3.7	-	3.2
97.0	36.0	-	-	-	2.5	6.6	-	-	-	-	-	-
97.0	40.0	0.0	0.0	2.9	0.0	2.8	0.0	-	2.8	0.0	-	6.2
97.0	45.0	-	-	2.9	0.0	0.0	2.5	-	0.0	2.9	-	-
97.0	50.0	2.8	0.0	0.0	0.0	0.0	3.5	-	0.0	12.5	-	7.1
97.0	55.0	-	-	0.0	0.0	2.7	-	-	-	7.5	-	-
97.0	60.0	0.0	0.0	0.0	0.0	2.6	-	-	-	-	-	-
100.0	29.0	0.0	0.0	0.0	0.0	0.0	4.9	-	0.0	18.6	-	3.0
100.0	30.0	0.0	0.0	2.7	0.0	2.7	21.3	-	11.6	31.4	-	5.9
100.0	35.0	-	0.0	2.9	7.8	0.0	0.0	-	0.0	-	-	3.4
100.0	40.0	0.0	0.0	0.0	3.0	12.3	8.3	-	2.9	45.6	-	-
100.0	45.0	-	0.0	2.8	0.0	0.0	3.4	-	0.0	38.8	-	-
100.0	50.0	3.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	-
100.0	55.0	-	0.0	0.0	0.0	0.0	-	-	-	3.4	-	-

TABLE 4. (cont.)

Citharichthys stigmaeus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
100.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	3.3
100.0	70.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0
100.0	80.0	1.8	0.0	0.0	0.0	0.0	0.0	-	-	0.0	-	-
103.0	30.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
103.0	35.0	2.4	0.0	0.0	0.0	0.0	0.0	39.3	-	0.0	-	0.0
103.0	40.0	0.0	0.0	0.0	0.0	2.9	0.0	3.0	-	8.6	-	0.0
103.0	50.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-
107.0	32.0	0.0	0.0	0.0	5.9	2.9	0.0	21.5	-	0.0	-	0.0
107.0	35.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	-	17.8	-	0.0
107.0	40.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	-	53.8	-	0.0
107.0	45.0	0.0	2.4	0.0	0.0	6.1	-	-	-	-	-	-
110.0	33.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	-	0.0	-	5.7
110.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	2.6	-	0.0
110.0	40.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	-	14.1	-	3.2
110.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	5.5	-	-
110.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	11.4	-	0.0
110.0	60.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	30.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	-	0.0	-	2.4
113.0	32.5	-	0.0	2.7	0.0	5.5	-	-	-	-	-	-
113.0	35.0	0.0	0.0	5.5	0.0	0.0	0.0	7.2	-	7.9	-	4.7
113.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	6.7	-	0.0
113.0	50.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	6.9
117.0	26.0	-	0.0	0.0	0.0	0.0	2.4	0.0	-	0.0	-	0.0
117.0	28.0	-	0.0	0.0	4.6	0.0	-	-	-	-	-	-
117.0	30.0	0.0	2.1	0.0	0.0	0.0	0.0	8.8	-	3.7	-	5.5
117.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	-	0.0	-	2.4
117.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	40.5	-	0.0	-	0.0
117.0	50.0	0.0	0.0	0.0	0.0	3.0	-	-	-	-	-	-
117.0	55.0	0.0	2.7	0.0	0.0	0.0	-	-	-	-	-	-
120.0	27.5	-	0.0	0.0	2.9	0.0	-	-	-	10.3	-	2.0
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
120.0	32.5	-	0.0	0.0	2.6	2.7	-	-	-	-	-	-
120.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	-	1.0	-	0.0
120.0	45.0	0.0	0.0	0.0	0.0	0.0	3.8	7.3	-	0.0	-	0.0
120.0	50.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	-	0.0	-	0.0
120.0	55.0	0.0	0.0	0.0	3.0	0.0	-	-	-	-	-	-
120.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.7	-	0.0
120.0	80.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	-	0.0	-	0.0
123.0	40.0	0.0	2.8	14.7	0.0	0.0	0.0	0.0	-	0.0	-	-
123.0	42.0	3.1	-	-	-	-	-	-	-	-	-	-
123.0	42.5	-	0.0	6.3	0.0	0.0	-	-	-	5.7	-	0.0
123.0	45.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	-	-	-	-
123.0	47.5	-	2.8	0.0	5.7	0.0	-	-	-	-	-	-
123.0	60.0	-	0.0	8.0	0.0	0.0	-	-	-	-	-	-
127.0	37.0	-	0.0	7.4	0.0	-	-	-	-	0.0	-	0.0
127.0	40.0	0.0	0.0	-	0.0	-	0.0	0.0	-	-	-	-

TABLE 4. (cont.)

Citharichthys stigmatæus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
127.0 42.5	-	-	0.0	4.2	0.0	0.0	-	-	-	-	-	-
127.0 45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	5.9	-	0.0	-	0.0
130.0 40.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	-	0.0	-	0.0
130.0 55.0	-	0.0	0.0	0.0	0.0	0.0	-	-	-	6.7	-	-
133.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	1.9	-	0.0
133.0 35.0	-	0.0	0.0	0.0	0.0	0.0	3.4	0.0	-	-	-	-

Citharichthys xanthostigma

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0 55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	3.0
85.0 39.0	-	0.0	0.0	0.0	0.0	0.0	-	-	0.0	0.0	-	2.8
85.0 40.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	2.9
85.0 45.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0 50.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	-	3.1
87.0 55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	-	0.0
87.0 60.0	6.9	0.0	2.9	0.0	0.0	0.0	0.0	-	0.0	5.4	-	0.0
90.0 30.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	2.9
93.0 35.0	-	-	-	0.0	2.6	0.0	0.0	-	0.0	-	-	-
93.0 40.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	3.2
93.0 60.0	3.8	0.0	-	0.0	0.0	0.0	-	-	-	0.0	-	-
97.0 32.0	0.0	0.0	0.0	-	0.0	0.0	0.0	-	0.0	-	-	3.2
97.0 60.0	2.4	0.0	0.0	0.0	0.0	0.0	-	-	-	-	-	-
97.0 80.0	-	-	-	0.0	0.0	2.7	-	-	-	-	-	-
103.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.3	-	0.0
103.0 40.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	0.0	-	0.0
110.0 45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.7	-	-
113.0 30.0	2.7	0.0	0.0	0.0	0.0	0.0	1.9	0.0	-	0.0	-	2.4
113.0 32.5	-	-	5.4	0.0	0.0	0.0	-	-	-	-	-	-
113.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	-	0.0	-	4.7
113.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.3	-	2.3
113.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	-	-	3.4
113.0 60.0	-	2.9	0.0	0.0	0.0	0.0	-	-	-	-	-	0.0
117.0 26.0	0.0	-	0.0	0.0	10.5	0.0	0.0	0.0	-	2.6	-	0.0
117.0 28.0	-	-	0.0	5.4	9.2	18.2	-	0.0	-	-	-	-
117.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	1.8	-	22.1
117.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	17.8	-	14.2
117.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.0	-	35.0	-	25.7
117.0 45.0	-	0.0	0.0	0.0	0.0	8.9	-	-	-	-	-	-
117.0 47.5	-	-	0.0	0.0	0.0	6.0	-	-	-	-	-	-
117.0 50.0	0.0	0.0	0.0	0.0	0.0	12.2	-	-	-	-	-	0.0
117.0 55.0	-	0.0	0.0	0.0	0.0	15.9	-	-	-	-	-	-

TABLE 4. (cont.)

Citharichthys xanhostigma (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	70.0	-	-	3.0	0.0	3.4	-	-	-	-	-	-
120.0	25.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	-	0.0	-	1.9
120.0	27.5	-	-	3.3	17.2	7.1	-	-	-	-	-	-
120.0	30.0	0.0	0.0	0.0	4.5	11.9	0.0	0.0	-	10.3	-	0.0
120.0	32.5	-	0.0	32.6	0.0	8.0	-	-	-	-	-	-
120.0	35.0	0.0	0.0	11.5	4.8	25.5	0.0	67.9	-	2.1	-	0.0
120.0	37.5	0.0	0.0	0.0	7.8	18.4	-	-	-	-	-	-
120.0	40.0	2.4	0.0	2.4	0.0	0.0	-	-	-	-	-	0.0
120.0	42.5	6.2	0.0	63.6	3.3	0.0	-	-	-	-	-	-
120.0	45.0	11.7	0.0	27.2	14.8	0.0	11.5	36.6	-	23.0	-	0.0
120.0	47.5	-	14.2	19.4	13.0	2.7	13.8	-	-	-	-	-
120.0	50.0	0.0	19.0	30.0	3.9	2.9	-	0.0	-	7.9	-	2.9
120.0	55.0	0.0	5.1	0.0	0.0	0.0	-	0.0	-	14.7	-	0.0
120.0	60.0	0.0	9.0	0.0	0.0	3.2	0.0	0.0	-	0.0	-	3.0
120.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	80.0	2.5	0.0	-	3.5	0.0	0.0	0.0	-	0.0	-	0.0
120.0	90.0	-	0.0	-	0.0	0.0	0.0	2.7	-	0.0	-	0.0
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0	40.0	9.6	34.2	44.2	6.8	0.0	0.0	0.0	-	0.0	-	0.0
123.0	42.0	15.4	-	-	-	-	-	-	-	-	-	-
123.0	42.5	-	2.7	270.9	15.9	0.0	-	-	-	-	-	-
123.0	45.0	-	5.1	103.5	13.2	0.0	0.0	0.0	-	2.9	-	0.0
123.0	47.5	-	8.4	11.6	13.1	0.0	-	-	-	-	-	-
123.0	50.0	2.7	0.0	0.0	113.4	0.0	0.0	6.7	-	0.0	-	0.0
123.0	55.0	-	4.5	0.0	58.3	0.0	-	-	-	0.0	-	0.0
123.0	60.0	0.0	0.0	0.0	97.6	0.0	4.4	23.0	-	-	-	0.0
127.0	34.0	-	0.0	0.0	0.0	3.0	-	-	-	-	-	-
127.0	37.0	-	0.0	12.1	0.0	0.0	-	-	-	-	-	-
127.0	40.0	24.3	0.0	238.1	32.2	-	5.8	25.5	-	0.0	-	0.0
127.0	42.5	-	2.7	54.7	24.2	6.5	-	-	-	-	-	-
127.0	45.0	-	0.0	6.8	0.0	0.0	19.9	144.6	-	5.9	-	0.0
127.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	9.5	-	0.0
127.0	55.0	-	0.0	0.0	0.0	0.0	-	-	-	12.6	-	0.0
127.0	60.0	0.0	0.0	16.9	0.0	0.0	-	-	-	-	-	-
130.0	30.0	12.0	0.0	191.4	10.6	2.2	0.0	0.0	-	0.0	-	0.0
130.0	35.0	44.3	0.0	49.0	0.0	0.0	2.1	2.7	-	0.0	-	0.0
130.0	40.0	3.4	0.0	2.8	0.0	0.0	0.0	4.7	-	0.0	-	0.0
130.0	45.0	-	0.0	3.2	0.0	0.0	0.0	0.0	-	6.0	-	0.0
130.0	50.0	0.0	0.0	0.0	0.0	0.0	67.8	0.0	-	0.0	-	0.0
130.0	55.0	-	0.0	0.0	0.0	0.0	-	-	-	0.0	-	-
130.0	60.0	0.0	0.0	0.0	0.0	0.0	29.3	0.0	-	0.0	-	0.0
133.0	25.0	12.6	0.0	0.0	0.0	0.0	0.0	18.3	-	0.0	-	0.0
133.0	30.0	40.6	54.5	0.0	6.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0	35.0	-	0.0	0.0	3.1	0.0	0.0	3.3	-	1.9	-	-
133.0	40.0	0.0	0.0	0.0	3.0	0.0	0.0	30.2	-	-	-	-
133.0	45.0	-	0.0	0.0	3.3	2.9	-	-	-	-	-	-

TABLE 4. (cont.)

Citharichthys xanthostigma (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0	50.0	0.0	0.0	0.0	4.7	0.0	-	-	-	-	-	-
137.0	23.0	8.5	0.0	0.0	2.4	0.0	0.0	0.0	-	0.0	-	0.0
137.0	30.0	11.9	80.3	0.0	3.3	0.0	58.0	21.9	-	0.0	-	0.0
137.0	35.0	-	0.0	28.3	0.0	3.3	-	-	-	-	-	-
137.0	40.0	3.1	0.0	0.0	0.0	6.3	-	-	-	-	-	-
137.0	45.0	-	0.0	0.0	0.0	2.9	-	-	-	-	-	-

Etropus spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	30.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	-	0.0	-	0.0
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.0	-	0.0

Hippoglossina stomata

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	1.9	0.0	-	0.0
83.0	48.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	2.7	-	0.0
85.0	60.0	0.0	0.0	0.0	0.0	0.0	7.1	-	0.0	0.0	-	0.0
90.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	2.9	-	0.0
113.0	30.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	-	2.6	-	0.0
117.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	2.4
117.0	30.0	2.9	0.0	2.6	0.0	0.0	0.0	2.9	-	0.0	-	0.0
120.0	25.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	-	1.2	-	0.0
120.0	27.5	-	-	6.6	8.6	2.4	-	-	-	-	-	-
120.0	30.0	0.0	0.0	0.0	8.9	0.0	0.0	0.0	-	5.1	-	0.0
120.0	32.5	-	0.0	5.4	2.6	0.0	-	-	-	-	-	-
120.0	35.0	0.0	0.0	0.0	7.3	5.7	0.0	0.0	-	1.0	-	0.0
120.0	40.0	-	0.0	2.4	0.0	0.0	-	-	-	-	-	0.0
120.0	42.5	-	0.0	7.5	0.0	0.0	-	-	-	-	-	-
120.0	50.0	0.0	0.0	7.5	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0	40.0	0.0	2.8	7.4	0.0	0.0	0.0	3.3	-	0.0	-	0.0
123.0	45.0	-	0.0	0.0	0.0	0.0	0.0	3.0	-	0.0	-	0.0
127.0	37.0	-	0.0	0.0	0.0	14.4	-	-	-	-	-	-
127.0	40.0	0.0	0.0	3.7	0.0	-	0.0	0.0	-	3.4	-	0.0
127.0	42.5	-	0.0	8.4	0.0	0.0	-	-	-	-	-	-
127.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.2	-	0.0
130.0	30.0	0.0	0.0	0.0	0.0	0.0	3.8	3.0	-	0.0	-	0.0
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	1.6	-	0.0
133.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	-	0.0	-	0.0
133.0	30.0	0.0	0.0	2.7	0.0	0.0	0.0	3.3	-	0.0	-	-
133.0	35.0	-	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
133.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	-	-	-	-

TABLE 4. (cont.)

Hippoglossina stomata (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0	23.0	5.7	0.0	0.0	0.0	0.0	5.1	0.0	-	0.0	-	0.0
137.0	30.0	5.9	2.7	0.0	0.0	2.5	0.0	2.7	-	2.9	-	0.0
140.0	30.0	2.9	-	-	-	-	-	-	-	-	-	2.1
143.0	26.0	0.0	-	-	-	-	-	-	-	-	-	1.9
143.0	30.0	3.2	-	-	-	-	-	-	-	-	-	0.0
147.0	20.0	11.2	-	-	-	-	-	-	-	-	-	0.0
150.0	19.0	2.8	-	-	-	-	-	-	-	-	-	0.0
150.0	30.0	6.2	-	-	-	-	-	-	-	-	-	0.0

Paralichthys californicus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	51.0	0.0	0.0	0.0	0.0	0.0	2.0	-	0.0	0.0	-	0.0
82.0	47.0	0.0	0.0	0.0	0.0	0.0	4.7	-	0.0	0.0	-	0.0
83.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	5.1	-	0.0
83.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0	39.0	0.0	2.4	0.0	0.0	0.0	-	-	0.0	0.0	-	0.0
87.0	35.0	0.0	6.8	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	28.0	5.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
93.0	27.0	0.0	5.0	0.0	0.0	0.0	11.2	-	0.0	0.0	-	0.0
93.0	40.0	0.0	2.6	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0
97.0	30.0	0.0	2.5	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
97.0	32.0	0.0	0.0	-	0.0	0.0	0.0	-	0.0	0.0	-	0.0
97.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	29.0	0.0	2.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
103.0	30.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	2.8	0.0	-	0.0
103.0	35.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
107.0	32.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	40.0	0.0	19.6	4.7	0.0	0.0	-	2.5	-	0.0	-	6.0
120.0	42.5	-	0.0	3.7	0.0	0.0	-	-	-	-	-	-
123.0	37.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0	42.0	0.0	-	-	-	-	-	-	-	-	-	-
127.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	-	0.0	-	0.0
133.0	25.0	0.0	0.0	0.0	0.0	0.0	28.0	0.0	-	0.0	-	0.0
133.0	35.0	-	0.0	0.0	0.0	0.0	13.7	0.0	-	0.0	-	0.0
137.0	23.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	-	0.0	-	0.0
137.0	30.0	0.0	0.0	0.0	0.0	7.4	5.8	0.0	-	0.0	-	0.0
150.0	19.0	2.8	-	-	-	-	-	-	-	-	-	0.0

TABLE 4. (cont.)

Syacium ovale

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
140.0 35.0	0.0	-	-	-	-	-	-	-	-	-	-	2.7
147.0 25.0	6.2	-	-	-	-	-	-	-	-	-	-	0.0
147.0 30.0	3.1	-	-	-	-	-	-	-	-	-	-	0.0

Xystreureys liolepis

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0 28.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	1.3	0.0	-	0.0
120.0 30.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
130.0 30.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0 25.0	25.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
137.0 23.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	-	0.0	-	0.0

Glyptocephalus zachirus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0 60.0	-	-	-	0.0	8.5	0.0	0.0	0.0	-	-	-	-
67.0 50.0	-	-	-	0.0	0.0	0.0	10.0	0.0	-	-	-	-
67.0 55.0	-	-	-	0.0	0.0	0.0	9.7	0.0	-	-	-	-
67.0 65.0	-	-	-	-	-	0.0	4.6	0.0	-	-	-	-
70.0 52.0	-	-	-	-	-	11.2	0.0	-	0.0	-	-	-
80.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	9.1	-	0.0	0.0	-	0.0
85.0 50.0	0.0	0.0	0.0	0.0	8.8	0.0	0.0	-	0.0	0.0	-	0.0
87.0 70.0	-	-	-	2.4	0.0	-	-	-	-	-	-	-
90.0 55.0	-	0.0	0.0	0.0	0.0	0.0	3.5	-	0.0	0.0	-	-

Lyopsetta exilis

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
57.0 55.0	-	-	-	-	-	5.6	-	-	-	-	-	-
60.0 55.0	-	-	-	2.8	0.0	0.0	0.0	0.0	-	-	-	-
60.0 60.0	-	-	-	0.0	8.5	28.4	22.9	0.0	-	-	-	-
60.0 70.0	-	-	-	0.0	22.4	0.0	0.0	0.0	-	-	-	-
60.0 80.0	-	-	-	0.0	0.0	0.0	3.0	-	0.0	-	-	-
60.0 90.0	-	-	-	0.0	0.0	0.0	2.7	-	0.0	-	-	-
63.0 52.0	-	-	-	9.6	2.2	3.8	0.0	0.0	-	-	-	-
63.0 55.0	-	-	-	0.0	0.0	18.4	0.0	0.0	-	-	-	-
67.0 50.0	-	-	-	17.6	4.2	0.0	0.0	0.0	-	-	-	-
67.0 55.0	-	-	-	9.5	5.8	0.0	9.7	0.0	-	-	-	-
67.0 65.0	-	-	-	-	-	25.1	0.0	0.0	-	-	-	-
70.0 51.0	-	-	-	-	2.5	-	-	-	-	-	-	-
70.0 52.0	-	-	-	-	-	11.2	0.0	-	2.3	-	-	-
70.0 55.0	-	-	-	3.8	0.0	0.0	0.0	-	0.0	-	-	-

TABLE 4. (cont.)

Lyopsetta exilis (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
73.0	50.0	-	-	0.0	2.2	0.0	-	-	0.0	-	-	-
73.0	60.0	-	-	1.8	0.0	0.0	-	-	0.0	-	-	-
77.0	50.0	0.0	0.0	0.0	-	0.0	12.3	-	0.0	0.0	-	-
80.0	55.0	0.0	0.0	4.5	0.0	11.2	0.0	-	0.0	0.0	-	0.0
80.0	60.0	0.0	0.0	2.4	9.9	0.0	0.0	-	0.0	0.0	-	0.0
80.0	70.0	0.0	0.0	0.0	25.3	-	0.0	-	0.0	0.0	-	0.0
80.0	80.0	0.0	0.0	0.0	2.6	0.0	0.0	-	0.0	0.0	-	0.0
82.0	47.0	0.0	0.0	8.8	10.3	0.0	0.0	-	0.0	0.0	-	0.0
83.0	43.0	0.0	0.0	0.0	35.3	0.0	0.0	-	0.0	0.0	-	0.0
83.0	51.0	0.0	0.0	2.5	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	55.0	0.0	0.0	5.1	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	60.0	0.0	0.0	0.0	0.0	13.7	0.0	-	0.0	0.0	-	0.0
85.0	39.0	0.0	0.0	2.1	0.0	0.0	-	-	0.0	0.0	-	0.0
85.0	45.0	0.0	0.0	19.5	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	35.0	0.0	2.3	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	28.0	0.0	9.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	33.5	-	0.0	0.0	2.2	0.0	-	-	0.0	-	-	-
90.0	41.0	-	-	-	2.3	0.0	-	-	-	-	-	-
90.0	45.0	-	-	-	6.5	0.0	-	-	-	-	-	-
90.0	55.0	0.0	0.0	0.0	10.4	0.0	0.0	-	0.0	0.0	-	0.0
93.0	27.0	0.0	0.0	2.8	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	29.0	0.0	0.0	0.0	3.4	6.3	0.0	-	0.0	0.0	-	0.0
100.0	30.0	0.0	0.5	0.0	0.0	2.7	0.0	-	0.0	0.0	-	0.0
100.0	35.0	-	6.2	5.3	0.0	5.3	0.0	-	0.0	0.0	-	0.0
100.0	40.0	0.0	0.0	14.4	0.0	0.0	0.0	-	0.0	-	-	0.0
103.0	35.0	0.0	0.0	0.0	0.0	3.1	0.0	-	0.0	0.0	-	0.0
107.0	32.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	-	0.0
110.0	33.0	0.0	2.3	6.0	17.7	6.9	0.0	0.0	0.0	0.0	-	0.0
110.0	35.0	0.0	0.0	3.2	3.2	0.0	0.0	0.0	0.0	0.0	-	0.0
110.0	40.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0
113.0	32.5	-	0.0	84.9	0.0	0.0	-	-	-	-	-	-
113.0	35.0	0.0	0.0	16.6	9.6	0.0	0.0	0.0	0.0	0.0	-	0.0
117.0	26.0	-	0.0	0.0	8.2	0.0	0.0	0.0	0.0	0.0	-	0.0
117.0	28.0	-	0.0	0.0	5.2	0.0	9.6	0.0	0.0	0.0	-	0.0
117.0	30.0	0.0	4.2	16.2	37.0	6.1	-	-	-	-	-	-
117.0	32.5	-	0.0	15.5	23.5	0.0	6.0	0.0	-	0.0	-	0.0
117.0	35.0	0.0	0.0	38.0	5.6	2.9	3.6	0.0	-	0.0	-	0.0
117.0	37.5	-	0.0	3.3	27.2	0.0	-	0.0	-	0.0	-	0.0
117.0	40.0	0.0	0.0	2.8	15.8	5.5	0.0	0.0	-	0.0	-	0.0
117.0	50.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	25.0	0.0	0.0	2.8	0.0	0.0	-	0.0	-	0.0	-	0.0
120.0	27.5	0.0	0.0	0.0	0.0	2.3	0.0	0.0	-	0.0	-	0.0
120.0	30.0	-	-	9.9	37.3	0.0	0.0	-	-	0.0	-	0.0
120.0	32.5	0.0	0.0	32.5	17.8	11.9	0.0	2.5	-	0.0	-	0.0
120.0	35.0	-	0.0	5.4	23.3	24.0	-	0.0	-	0.0	-	0.0
120.0	37.5	0.0	0.0	17.3	4.8	5.7	0.0	0.0	-	0.0	-	0.0
120.0	37.5	-	-	0.0	0.0	7.9	-	-	-	-	-	-

TABLE 4. (cont.)

Lyopsetta exilis (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	40.0	-	0.0	0.0	1.9	0.0	-	-	-	-	-	0.0
120.0	42.5	0.0	0.0	11.2	6.6	0.0	-	-	-	-	-	-
120.0	47.5	-	0.0	0.0	0.0	2.7	-	-	-	-	-	-
123.0	37.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
123.0	40.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	-	0.0	-	0.0
123.0	42.5	-	0.0	6.3	0.0	0.0	-	-	-	-	-	-
123.0	45.0	-	0.0	0.0	7.9	0.0	0.0	0.0	-	0.0	-	0.0
123.0	47.5	-	0.0	3.9	0.0	0.0	-	-	-	-	-	-
123.0	50.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0	34.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	-	-	-	0.0
127.0	42.5	-	0.0	16.8	3.0	0.0	-	-	-	-	-	-

Microstomus pacificus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
50.0	80.0	-	-	-	-	13.6	-	-	-	-	-	-
50.0	100.0	-	-	-	-	2.5	-	-	-	-	-	-
63.0	55.0	-	-	0.0	2.3	0.0	0.0	0.0	-	-	-	-
67.0	50.0	-	-	2.2	0.0	0.0	0.0	0.0	-	-	-	-
70.0	80.0	-	-	-	2.7	3.2	0.0	-	0.0	-	-	-
77.0	65.0	-	-	2.6	0.0	-	0.0	-	0.0	-	-	-
82.0	47.0	0.0	0.0	2.9	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	48.0	0.0	0.0	0.0	5.6	0.0	0.0	-	0.0	0.0	-	0.0
83.0	60.0	0.0	0.0	0.0	0.0	13.7	0.0	-	0.0	0.0	-	0.0
87.0	55.0	0.0	0.0	0.0	4.3	0.0	0.0	-	0.0	0.0	-	0.0
87.0	60.0	0.0	0.0	0.0	14.8	0.0	0.0	-	0.0	0.0	-	0.0
87.0	70.0	-	-	0.0	3.0	-	-	-	-	-	-	-
87.0	80.0	-	-	0.0	0.0	2.4	-	-	-	-	-	-
90.0	55.0	-	0.0	0.0	2.6	0.0	0.0	-	0.0	0.0	-	-
90.0	60.0	0.0	0.0	0.0	6.1	0.0	0.0	-	0.0	0.0	-	0.0
90.0	80.0	0.0	-	0.0	0.0	6.7	-	-	-	-	-	-

Parophrys vetulus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
57.0	51.0	-	-	-	-	1.9	-	-	-	-	-	-
57.0	65.0	-	-	-	-	3.0	-	-	-	-	-	-
60.0	90.0	-	-	0.0	0.0	5.9	0.0	-	0.0	-	-	-
63.0	52.0	-	-	23.0	0.0	0.0	0.0	0.0	-	-	-	-
63.0	55.0	-	-	2.7	0.0	0.0	0.0	0.0	-	-	-	-
67.0	55.0	-	-	7.1	0.0	0.0	0.0	0.0	-	-	-	-
80.0	51.0	0.0	4.7	0.0	0.0	0.0	6.2	-	0.0	0.0	-	0.0
83.0	48.0	0.0	29.6	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0

TABLE 4. (cont.)

Parophrys vetulus (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
87.0	35.0	0.0	11.3	0.0	0.0	6.1	0.0	-	0.0	0.0	-	0.0
87.0	45.0	0.0	0.0	0.0	0.0	0.0	4.0	-	0.0	0.0	-	0.0
87.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	28.0	0.0	0.0	0.0	15.1	0.0	0.0	-	0.0	0.0	-	0.0
90.0	30.0	0.0	0.0	0.0	0.0	5.1	0.0	-	2.2	0.0	-	0.0
93.0	27.0	0.0	0.0	0.0	17.0	6.3	0.0	-	0.0	0.0	-	0.0
97.0	30.0	0.0	5.0	11.3	2.6	0.0	0.0	-	0.0	0.0	-	0.0
97.0	32.0	0.0	0.0	-	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	29.0	0.0	1.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	30.0	0.0	6.2	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
103.0	30.0	8.8	11.3	0.0	5.0	0.0	0.0	0.0	-	0.0	-	0.0
103.0	35.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	-	0.0	-	0.0
107.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	33.0	2.0	6.8	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
113.0	30.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	-	0.0	-	0.0
117.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
117.0	30.0	0.0	0.0	5.2	0.0	0.0	4.8	0.0	-	0.0	-	0.0
120.0	25.0	0.0	0.0	13.1	2.1	0.0	0.0	0.0	-	0.0	-	0.0
120.0	35.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	40.0	-	2.5	0.0	0.0	0.0	0.0	-	-	-	-	0.0
120.0	42.5	-	4.0	0.0	0.0	0.0	-	-	-	-	-	-
127.0	37.0	-	0.0	4.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
127.0	40.0	0.0	0.0	3.7	0.0	-	0.0	0.0	-	0.0	-	0.0
130.0	35.0	0.0	40.6	3.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0

Pleuronichthys spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
60.0	70.0	-	-	0.0	0.0	0.0	10.3	0.0	-	-	-	-
80.0	55.0	0.0	0.0	0.0	0.0	0.0	2.4	-	0.0	0.0	-	0.0
82.0	47.0	0.0	0.0	2.9	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	48.0	0.0	0.0	0.0	0.0	0.0	2.4	-	0.0	0.0	-	0.0
83.0	55.0	0.0	0.0	2.5	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	60.0	0.0	0.0	0.0	0.0	0.0	12.3	-	0.0	0.0	-	0.0
90.0	55.0	-	0.0	2.8	0.0	0.0	0.0	-	0.0	0.0	-	0.0
103.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	-	0.0	-	0.0
110.0	33.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	1.8	-	0.0
113.0	30.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	-	0.0	-	0.0
117.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	-	0.0	-	0.0
120.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.6	-	0.0
120.0	32.5	-	0.0	0.0	0.0	2.7	-	-	-	-	-	-
120.0	45.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	-	0.0	-	0.0
127.0	45.0	-	0.0	0.0	0.0	0.0	3.3	0.0	-	0.0	-	0.0
130.0	45.0	-	0.0	3.2	0.0	0.0	0.0	0.0	-	0.0	-	-
133.0	30.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	-	0.0	-	0.0

TABLE 4. (cont.)

Pleuronichthys spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
137.0	23.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	-	0.0	-	0.0

<i>Pleuronichthys coenosus</i>												
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
83.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	51.0	0.0	0.0	0.0	0.0	0.0	1.9	-	0.0	0.0	-	0.0
85.0	55.0	0.0	0.0	0.0	4.4	0.0	0.0	-	0.0	0.0	-	0.0
87.0	45.0	0.0	0.0	0.0	0.0	0.0	4.0	-	0.0	0.0	-	0.0
90.0	55.0	0.0	0.0	0.0	2.6	0.0	0.0	-	0.0	0.0	-	-
100.0	29.0	0.0	0.5	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	30.0	0.0	2.1	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
107.0	32.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	-	0.0	-	0.0
120.0	37.5	0.0	0.0	0.0	2.0	0.0	-	-	-	-	-	-
127.0	34.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	-	-	-	0.0

Pleuronichthys decurrens

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	100.0	2.2	-	-	-	0.0	-	-	0.0	-	-	-
90.0	45.0	0.0	0.0	0.0	5.2	0.0	0.0	-	0.0	0.0	-	0.0

Pleuronichthys verticalis

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
63.0	52.0	-	-	0.0	0.0	0.0	0.0	3.5	-	-	-	-
73.0	50.0	-	-	2.8	0.0	0.0	-	-	0.0	-	-	-
77.0	50.0	0.0	0.0	0.0	-	0.0	12.3	-	0.0	0.0	-	-
77.0	55.0	0.0	0.0	0.0	0.0	0.0	11.7	-	0.0	0.0	-	-
83.0	40.0	0.0	0.0	0.0	0.0	2.1	0.0	-	0.0	0.0	-	0.0
83.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
83.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0	35.0	0.0	6.8	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	28.0	10.0	0.0	0.0	2.2	0.0	0.0	-	2.9	0.0	-	0.0
97.0	32.0	0.0	1.5	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	29.0	0.0	0.5	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
103.0	30.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	2.9	0.0	-	0.0
113.0	30.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	-	0.0	-	0.0
117.0	28.0	-	0.0	2.7	0.0	0.0	0.0	-	-	0.0	-	-
120.0	25.0	0.0	0.0	2.6	0.0	0.0	6.8	0.0	-	0.0	-	0.0
120.0	27.5	-	-	3.3	0.0	0.0	-	-	-	-	-	-
120.0	32.5	-	1.5	0.0	0.0	2.7	-	-	-	-	-	-

TABLE 4. (cont.)

Pleuronichthys verticalis (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0 42.5	-	0.0	0.0	3.7	0.0	0.0	-	-	-	-	-	-
120.0 47.5	-	-	2.8	6.5	0.0	0.0	-	-	-	-	-	-
123.0 55.0	-	-	0.0	0.0	3.2	0.0	-	-	-	0.0	-	0.0
127.0 37.0	-	-	0.0	4.0	0.0	0.0	-	-	-	-	-	-
133.0 25.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	-	0.0	-	0.0
137.0 23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	-	0.0	-	0.0
137.0 30.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0

Psettichthys melanostictus

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
63.0 52.0	-	-	-	11.5	0.0	0.0	0.0	0.0	-	-	-	-
67.0 50.0	-	-	-	13.2	0.0	0.0	0.0	0.0	-	-	-	-
83.0 51.0	0.0	0.0	6.6	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
87.0 50.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
97.0 30.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	-	0.0	0.0	-	0.0

Symphurus spp.

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
77.0 65.0	-	-	-	0.0	0.0	-	0.0	-	2.7	-	-	-
83.0 48.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	-	0.0	0.0	-	0.0
83.0 51.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0 37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	2.9	-	0.0
93.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.5	0.0	-	0.0
93.0 40.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	6.1	0.0	-	0.0
117.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	-	0.0	-	0.0
120.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	-	0.0	-	0.0
120.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3	-	2.6	-	0.0
120.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	7.9	-	0.0
120.0 70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	5.3	-	0.0
123.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	-	0.0	-	0.0
123.0 45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	21.2	-	0.0	-	0.0
123.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.2	-	0.0
127.0 34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	-	-	-	0.0
127.0 40.0	0.0	0.0	0.0	0.0	0.0	-	0.0	2.8	-	0.0	-	0.0
127.0 45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	5.9	-	8.8	-	0.0
127.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	-	0.0	-	0.0
130.0 30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.9	-	0.0	-	0.0
130.0 35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	-	0.0	-	0.0
130.0 40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	10.4	-	0.0
130.0 45.0	-	0.0	0.0	0.0	0.0	0.0	0.0	13.7	-	0.0	-	0.0
130.0 50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.1	-	0.0
130.0 60.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.8	-	0.0

TABLE 4. (cont.)

Symphurus spp. (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
133.0	25.0	2.5	0.0	0.0	0.0	0.0	0.0	75.7	-	5.4	-	0.0
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	1.9	-	0.0
133.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	-	-	-	-
137.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	1.8
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	-	8.8	-	0.0
150.0	30.0	3.1	-	-	-	-	-	-	-	-	-	0.0
Disintegrated fish larva												
STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
53.0	52.0	-	-	-	-	25.1	-	-	-	-	-	-
67.0	55.0	-	-	0.0	5.8	0.0	0.0	0.0	-	-	-	-
70.0	90.0	-	-	0.0	0.0	3.4	-	0.0	-	-	-	-
73.0	50.0	-	-	2.8	0.0	0.0	-	-	0.0	-	-	-
77.0	50.0	0.0	11.4	0.0	-	0.0	12.3	-	0.0	0.0	-	-
77.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	2.7
80.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0	70.0	10.3	0.0	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0
80.0	90.0	-	0.0	0.0	0.0	0.0	0.0	-	5.6	0.0	-	0.0
80.0	100.0	-	-	-	-	0.0	-	-	6.0	-	-	-
83.0	40.0	0.0	0.0	0.0	0.0	0.0	2.1	-	0.0	0.0	-	0.0
83.0	43.0	0.0	0.0	0.0	0.0	0.0	2.9	-	0.0	0.0	-	0.0
83.0	51.0	0.0	0.0	0.0	0.0	0.0	1.9	-	0.0	0.0	-	0.0
83.0	90.0	-	-	0.0	0.0	2.6	-	-	-	-	-	-
87.0	55.0	0.0	0.0	0.0	0.0	10.6	0.0	-	0.0	0.0	-	0.0
87.0	70.0	-	-	0.0	3.0	-	-	-	-	-	-	-
87.0	90.0	-	-	0.0	0.0	2.3	-	-	-	-	-	-
93.0	27.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
93.0	55.0	-	-	0.0	2.6	0.0	-	-	-	0.0	-	0.0
100.0	40.0	0.0	4.8	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	45.0	-	5.3	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
100.0	90.0	-	0.0	0.0	3.4	0.0	-	-	-	0.0	-	0.0
103.0	30.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	-	0.0	-	0.0
103.0	35.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	-	0.0	-	0.0
103.0	60.0	0.0	0.0	0.0	5.5	0.0	-	-	-	-	-	0.0
107.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	0.0
107.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	6.4	-	0.0
107.0	45.0	0.0	4.8	0.0	0.0	0.0	3.2	0.0	-	0.0	-	3.4
107.0	60.0	0.0	0.0	3.5	0.0	0.0	-	-	-	-	-	-
107.0	80.0	-	-	0.0	4.1	-	-	-	-	-	-	-
110.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	-	0.0	-	-
110.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	0.0	-	0.0
110.0	60.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	-	0.0	-	0.0
113.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	-	0.0	-	0.0
113.0	47.5	-	0.0	0.0	0.0	2.6	-	-	-	-	-	-

TABLE 4. (cont.)

Disintegrated fish larva (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
117.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	-	1.8	-	0.0
120.0	25.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	-	0.0	-	0.0
120.0	42.5	0.0	0.0	0.0	0.0	2.5	-	0.0	-	-	-	-
120.0	80.0	0.0	0.0	-	0.0	0.0	0.0	2.8	-	0.0	-	0.0
120.0	90.0	-	0.0	-	3.5	0.0	0.0	0.0	-	0.0	-	0.0
123.0	37.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	2.8
123.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	-	0.0	-	0.0
123.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	-	9.7	-	0.0
127.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	-	2.9	-	0.0
130.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	-	0.0	-	0.0
130.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	3.0
130.0	60.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0	25.0	0.0	6.5	0.0	0.0	0.0	0.0	2.6	-	3.6	-	0.0
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	5.6	-	0.0
133.0	60.0	-	-	0.0	3.3	-	-	-	-	-	-	-
137.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	-	8.8	-	0.0
143.0	26.0	0.0	-	-	-	-	-	-	-	-	-	1.9
153.0	30.0	-	-	-	-	-	-	-	-	-	-	5.6
157.0	10.0	-	-	-	-	-	-	-	-	-	-	2.1

Unidentified fish larva

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
80.0	51.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	2.5	-	0.0
80.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
80.0	90.0	0.0	0.0	0.0	0.0	3.0	0.0	-	0.0	0.0	-	0.0
83.0	40.0	0.0	0.0	0.0	3.0	0.0	0.0	-	1.9	0.0	-	1.5
83.0	43.0	2.8	0.0	0.0	0.0	0.0	11.6	-	8.1	0.0	-	0.0
83.0	48.0	0.0	0.0	0.0	11.1	0.0	16.9	-	0.0	0.0	-	0.0
83.0	51.0	0.0	0.0	0.0	0.0	0.0	3.8	-	0.0	0.0	-	0.0
83.0	55.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.3	0.0	-	0.0
83.0	60.0	2.4	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
85.0	39.0	-	0.0	0.0	1.6	0.0	-	-	0.0	0.0	-	0.0
85.0	40.0	0.0	0.0	0.0	0.0	-	5.1	-	0.0	0.0	-	0.0
85.0	45.0	0.0	0.0	0.0	0.0	0.0	2.5	-	0.0	0.0	-	0.0
87.0	35.0	0.0	2.3	0.0	0.0	0.0	13.6	-	0.0	0.0	-	0.0
87.0	40.0	0.0	0.0	0.0	0.0	0.0	8.7	-	0.0	-	-	0.0
87.0	45.0	0.0	0.0	0.0	0.0	0.0	4.0	-	0.0	0.0	-	0.0
87.0	50.0	11.1	0.0	0.0	0.0	0.0	4.9	-	2.4	0.0	-	0.0
87.0	55.0	0.0	0.0	0.0	0.0	0.0	14.4	-	0.0	0.0	-	0.0
87.0	60.0	2.3	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	28.0	0.0	6.8	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
90.0	30.0	0.0	0.0	0.0	0.0	0.0	5.1	-	0.0	0.0	-	0.0
90.0	37.0	4.2	0.0	0.0	0.0	0.0	18.8	-	0.0	3.1	-	0.0
90.0	41.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.8	0.0	-	0.0

TABLE 4. (cont.)

Unidentified fish larva (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
90.0	45.0	2.0	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	-	0.0
93.0	27.0	0.0	14.9	0.0	13.6	0.0	100.4	-	0.0	0.0	-	0.0
93.0	30.0	0.0	0.0	0.0	2.5	0.0	9.5	-	0.0	0.0	-	0.0
93.0	40.0	0.0	2.6	0.0	0.0	-	0.0	-	0.0	0.0	-	0.0
97.0	30.0	0.0	0.0	0.0	2.6	0.0	0.0	-	0.0	0.0	-	0.0
97.0	50.0	0.0	0.0	3.3	0.0	0.0	0.0	-	0.0	0.0	-	3.5
97.0	90.0	-	-	2.8	0.0	0.0	-	-	-	-	-	-
100.0	29.0	0.0	0.0	2.2	0.0	13.7	0.0	-	0.0	2.7	-	0.0
100.0	30.0	0.0	6.2	2.7	0.0	2.7	0.0	-	0.0	0.0	-	0.0
100.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	-	0.0	-	0.0
100.0	90.0	0.0	0.0	0.0	0.0	0.0	-	-	-	3.0	-	0.0
100.0	100.0	-	-	3.0	0.0	-	-	-	-	-	-	-
103.0	30.0	0.0	2.3	0.0	0.0	2.7	3.3	0.0	-	0.0	-	0.0
103.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	-	0.0	-	0.0
103.0	50.0	0.0	0.0	0.0	0.0	3.1	-	-	-	-	-	-
103.0	55.0	-	0.0	0.0	0.0	6.0	-	-	-	-	-	-
103.0	70.0	-	-	3.0	0.0	0.0	-	-	-	-	-	-
107.0	32.0	0.0	1.8	0.0	0.0	0.0	3.5	3.1	-	0.0	-	0.0
107.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	-	0.0	-	0.0
107.0	50.0	0.0	2.4	0.0	0.0	0.0	-	-	-	-	-	-
107.0	55.0	-	0.0	0.0	2.9	0.0	-	-	-	-	-	-
110.0	33.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	35.0	1.9	0.0	3.2	0.0	0.0	2.9	0.0	-	0.0	-	0.0
110.0	45.0	-	0.0	0.0	0.0	0.0	3.4	0.0	-	0.0	-	0.0
110.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
110.0	60.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	-	0.0	-	0.0
110.0	80.0	0.0	9.4	3.2	0.0	0.0	-	3.0	-	-	-	-
110.0	90.0	2.1	-	0.0	0.0	0.0	-	-	-	-	-	-
110.0	100.0	2.3	-	-	-	-	-	-	-	-	-	-
113.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	-	0.0	-	0.0
113.0	50.0	3.3	0.0	0.0	0.0	0.0	-	-	-	-	-	0.0
113.0	55.0	-	3.4	6.3	0.0	0.0	-	-	-	-	-	-
117.0	26.0	-	0.0	2.9	0.0	0.0	0.0	4.6	-	2.6	-	0.0
117.0	30.0	0.0	2.1	7.8	0.0	0.0	0.0	0.0	-	0.0	-	0.0
117.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	-	0.0	-	0.0
117.0	42.5	-	0.0	2.8	0.0	0.0	-	-	-	-	-	-
120.0	25.0	0.0	0.0	0.0	0.0	9.3	0.0	2.3	-	0.0	-	0.0
120.0	27.5	4.1	-	0.0	5.7	2.4	-	-	-	-	-	-
120.0	35.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	-	4.1	-	6.1
120.0	37.5	4.0	0.0	0.0	0.0	2.6	-	-	-	-	-	-
120.0	40.0	12.1	0.0	2.4	0.0	0.0	-	-	-	-	-	0.0
120.0	45.0	0.0	5.2	0.0	0.0	0.0	0.0	14.6	-	0.0	-	0.0
120.0	47.5	-	2.8	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	60.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	70.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
120.0	70.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0

TABLE 4. (cont.)

Unidentified fish larva (cont.)

STATION	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.
120.0	90.0	-	0.0	-	3.5	0.0	0.0	0.0	-	0.0	-	0.0
120.0	120.0	-	-	-	-	-	-	-	-	-	-	-
123.0	37.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	-	0.0	-	0.0
123.0	40.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	-	0.0	-	0.0
123.0	45.0	3.0	0.0	0.0	0.0	0.0	2.9	9.1	-	0.0	-	0.0
123.0	47.5	-	0.0	3.9	0.0	-	-	-	-	-	-	-
127.0	40.0	0.0	0.0	0.0	0.0	-	2.9	0.0	-	0.0	-	0.0
127.0	45.0	-	0.0	3.4	0.0	0.0	0.0	3.0	-	0.0	-	0.0
127.0	47.5	-	0.0	3.3	0.0	0.0	-	-	-	-	-	-
127.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	3.2	-	0.0
127.0	55.0	-	2.9	0.0	0.0	0.0	-	-	-	0.0	-	0.0
127.0	60.0	-	2.7	3.4	0.0	0.0	-	-	-	-	-	-
130.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	2.7	-	0.0
130.0	35.0	0.0	0.0	7.5	0.0	0.0	2.1	2.7	-	0.0	-	0.0
130.0	40.0	0.0	2.8	0.0	0.0	2.8	0.0	0.0	-	0.0	-	0.0
130.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	-	0.0	-	0.0
130.0	55.0	-	0.0	0.0	0.0	0.0	-	-	-	20.2	-	-
130.0	60.0	14.1	0.0	3.7	0.0	0.0	6.5	0.0	-	0.0	-	0.0
133.0	25.0	7.6	0.0	0.0	0.0	0.0	11.2	2.6	-	0.0	-	0.0
133.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	0.0
133.0	35.0	-	4.9	0.0	0.0	0.0	3.4	3.3	-	-	-	-
133.0	40.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	-
133.0	45.0	-	0.0	8.3	0.0	0.0	-	-	-	-	-	-
137.0	23.0	14.2	0.0	0.0	0.0	0.0	0.0	0.0	-	0.0	-	5.5
137.0	30.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	-	85.0	-	0.0
140.0	30.0	5.8	-	-	-	-	-	-	-	-	-	0.0
147.0	20.0	2.8	-	-	-	-	-	-	-	-	-	6.2
147.0	25.0	12.3	-	-	-	-	-	-	-	-	-	0.0
150.0	60.0	2.9	-	-	-	-	-	-	-	-	-	-
153.0	30.0	-	-	-	-	-	-	-	-	-	-	11.3
157.0	20.0	-	-	-	-	-	-	-	-	-	-	5.7

TABLE 5. Summary of pooled occurrences of all larval fish taxa taken on CalCOFI surveys from 1951 to 1960. Taxa are listed in the same order as Table 4.

Name	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
<i>Albula vulpes</i>	3	-	-	-	-	-	1	-	-	-
<i>Anguilliformes</i>	35	26	15	30	4	11	33	36	33	16
<i>Etrumeus acuminatus</i>	25	18	28	28	5	8	27	45	31	29
<i>Opisthonema</i> spp.	1	4	-	1	-	4	3	4	1	-
<i>Sardinops sagax</i>	167	269	221	375	255	167	174	193	172	142
<i>Engraulidae</i>	-	-	-	-	1	-	-	2	2	-
<i>Engraulis mordax</i>	394	524	686	760	569	537	581	785	888	979
<i>Alepocephalidae</i>	2	-	-	-	1	-	-	-	-	-
<i>Argentina sialis</i>	55	68	89	110	81	77	56	31	30	53
<i>Microstoma microstoma</i>	21	28	18	39	22	17	16	34	25	23
<i>Nansenia candida</i>	29	17	18	27	8	13	7	17	13	20
<i>Nansenia crassa</i>	50	63	65	47	61	32	74	49	27	38
<i>Bathylagus</i> spp.	-	-	-	1	3	1	4	13	7	3
<i>Bathylagus milleri</i>	1	-	-	1	1	2	-	1	1	1
<i>Bathylagus ochotensis</i>	153	222	208	195	162	171	111	237	106	190
<i>Bathylagus pacificus</i>	12	15	4	11	2	-	2	24	13	2
<i>Bathylagus wesethi</i>	259	370	258	365	286	157	298	377	275	184
<i>Leuroglossus schmidt</i>	-	-	-	-	-	3	-	-	-	-
<i>Leuroglossus stilbius</i>	402	502	612	517	508	465	343	350	324	505
<i>Osmeridae</i>	-	-	-	-	-	2	-	-	-	2
<i>Stomiiformes</i>	-	1	16	6	3	3	2	9	13	17
<i>Cyclothone</i> spp.	253	283	161	184	184	74	240	317	514	271
<i>Diplophos taenia</i>	8	1	-	4	1	3	3	28	36	18
<i>Ichthyococcus</i> spp.	16	23	12	26	30	3	18	37	43	8
<i>Vinciguerrria lucetia</i>	532	474	329	425	338	225	574	882	1209	635
<i>Sternoptychidae</i>	38	67	68	49	41	29	63	86	94	66
<i>Chauliodus macouni</i>	55	69	47	54	49	54	48	75	72	69
<i>Idiacanthus antrostomus</i>	48	31	14	19	10	6	19	33	38	36
<i>Aristostomias scintillans</i>	16	8	10	2	4	2	10	11	11	5
<i>Bathophilus</i> spp.	4	-	2	1	5	3	4	4	7	10
<i>Tactostoma macropus</i>	20	15	-	11	-	-	9	2	2	7
<i>Stomias atriventer</i>	96	120	86	124	87	20	67	182	181	142
<i>Myctophiiformes</i>	-	-	-	-	-	-	-	-	-	2
<i>Anotopterus pharao</i>	1	-	-	-	-	-	1	-	-	-
<i>Evermannellidae</i>	-	-	-	-	1	-	-	-	6	3
<i>Paralepididae</i>	169	179	95	123	80	59	92	145	165	108
<i>Aulopus</i> spp.	1	-	-	-	-	-	1	-	-	-
<i>Scopelosaurus</i> spp.	-	-	-	-	-	-	-	-	16	15
<i>Scopelarchidae</i>	59	54	17	28	34	16	43	50	93	63
<i>Myctophidae</i>	99	186	59	53	60	55	175	174	245	317
<i>Ceratoscopelus townsendi</i>	140	78	33	41	58	36	165	159	373	156
<i>Diaphus</i> spp.	116	156	63	111	81	101	66	90	103	76
<i>Lampadena urophas</i>	39	22	-	10	10	14	63	44	120	46
<i>Lampanyctus</i> spp.	576	555	393	154	58	45	125	121	260	209
<i>Lampanyctus regalis</i>	-	-	-	19	19	14	26	28	46	12
<i>Lampanyctus ritteri</i>	-	-	-	308	296	214	306	416	429	311

TABLE 5. (cont.)

Name	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
<i>Notolychnus valdiviae</i>	5	4	4	2	1	2	-	1	3	12
<i>Notoscopelus resplendens</i>	16	4	10	8	23	1	31	24	76	64
<i>Stenobrachius leucopsarus</i>	369	405	365	452	251	395	267	361	327	386
<i>Triphoturus mexicanus</i>	589	715	573	565	475	322	641	768	1069	808
<i>Centrobranchus</i> spp.	-	-	-	-	-	-	-	-	-	1
<i>Diogenichthys</i> spp.	10	3	2	-	6	3	30	35	79	97
<i>Diogenichthys atlanticus</i>	109	112	68	87	90	85	109	126	116	121
<i>Diogenichthys laternatus</i>	230	233	232	346	265	113	412	416	442	210
<i>Electrona rissoi</i>	15	4	4	-	1	-	-	-	2	1
<i>Goniichthys tenuiculus</i>	49	44	38	45	37	12	81	126	181	55
<i>Hygophum</i> spp.	29	20	23	10	6	6	15	47	91	73
<i>Hygophum atriatum</i>	47	35	33	36	43	22	88	96	138	21
<i>Hygophum proximum</i>	-	-	-	-	-	-	-	-	-	2
<i>Hygophum reinhardtii</i>	17	14	1	5	13	7	20	6	16	44
<i>Loweina rara</i>	19	18	33	29	14	5	7	8	9	10
<i>Myctophum aurolaternatum</i>	6	-	-	1	1	4	3	13	4	4
<i>Myctophum nitidulum</i>	30	34	7	11	13	13	27	56	105	43
<i>Protomyctophum crockeri</i>	370	345	211	293	312	243	254	360	424	417
<i>Symblophorus californiensis</i>	206	183	132	146	102	60	142	216	191	109
<i>Tarletonbeania crenularis</i>	306	399	243	164	103	236	116	90	113	222
<i>Synodus</i> spp.	41	63	44	82	41	39	70	53	66	51
<i>Bregmaceros</i> spp.	2	-	-	1	3	-	13	11	13	19
<i>Merluccius productus</i>	351	366	417	543	439	365	331	541	340	468
Moridae	1	-	-	-	-	-	5	-	-	-
<i>Physiculus</i> spp.	9	-	-	-	-	2	8	5	2	3
Macrouridae	5	4	6	15	3	6	2	7	3	4
Ophidiiformes	68	53	52	37	26	37	74	61	43	41
<i>Brosomphycis marginata</i>	9	18	9	19	6	12	14	16	10	3
Carapidae	2	1	1	3	1	2	-	4	-	1
<i>Chilara taylori</i>	6	17	-	8	14	9	6	-	17	8
<i>Ophidion scrippsae</i>	17	13	5	17	4	19	53	15	44	43
<i>Porichthys</i> spp.	2	-	1	-	-	-	-	-	-	1
Antennariidae	1	-	-	-	-	-	1	-	-	-
Ceratioidei	3	3	-	2	-	2	16	16	50	19
Lophiidae	-	-	-	-	-	-	-	-	-	-
Gobiesocidae	-	1	-	-	1	-	1	1	1	1
Exocoetidae	8	2	6	1	-	1	5	1	6	4
Hemiramphidae	5	-	-	-	-	-	-	-	-	-
<i>Cololabis saira</i>	53	28	42	22	54	23	14	28	20	16
Atherinidae	2	6	3	7	3	3	1	2	1	1
Trachipteridae	32	40	28	17	13	12	28	31	12	32
<i>Melamphaes</i> spp.	221	233	151	189	166	138	212	238	209	157
<i>Poromitra</i> spp.	1	4	12	28	4	18	21	4	17	19
<i>Scopeloberyx robustus</i>	-	-	-	-	-	-	-	-	-	3
<i>Scopelogadus bispinosus</i>	4	4	1	15	6	5	26	27	60	26
Fistulariidae	-	-	-	-	-	-	-	1	-	-
<i>Macroramphosus gracilis</i>	1	-	-	-	2	-	2	1	1	1
<i>Syngnathus</i> spp.	5	6	12	4	6	2	5	2	3	7

TABLE 5. (cont.)

Name	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
Agonidae	2	4	12	23	10	7	11	11	8	8
<i>Anoplopoma fimbria</i>	-	1	1	-	57	37	-	-	27	-
Cottidae	24	36	22	49	-	13	31	20	-	30
<i>Scorpaenichthys marmoratus</i>	6	8	3	17	4	13	3	6	4	6
Cyclopteridae	4	13	16	8	5	8	3	4	2	11
Hexagrammidae	1	-	-	-	-	-	1	2	-	1
<i>Ophiodon elongatus</i>	-	1	-	-	2	1	1	3	-	-
<i>Oxylebius pictus</i>	-	1	4	3	-	7	4	12	3	9
<i>Zaniolepis</i> spp.	-	1	2	5	4	9	2	6	6	9
Scorpaenidae	10	9	2	-	-	1	1	-	2	2
<i>Scorpaena</i> spp.	-	-	-	-	-	15	30	9	28	29
<i>Sebastes</i> spp.	600	686	771	841	637	613	558	665	602	572
<i>Sebastolobus</i> spp.	24	16	2	1	-	2	5	2	10	25
<i>Prionotus</i> spp.	24	19	12	13	-	19	30	25	28	17
Blennioidei	2	-	-	-	-	1	2	-	-	1
Bathymasteridae	-	-	-	-	-	-	-	-	-	1
<i>Hypsoblennius</i> spp.	18	32	38	27	14	11	26	51	59	47
Clinidae	7	4	12	19	15	17	14	20	15	18
Gobiidae	116	107	61	113	56	71	93	84	108	67
<i>Icosteus aenigmaticus</i>	1	4	-	-	-	1	-	-	2	3
Labridae	74	135	93	124	57	39	97	82	122	75
Pomacentridae	-	-	-	14	-	8	24	9	18	2
<i>Chromis punctipinnis</i>	37	27	-	21	4	18	12	16	16	38
<i>Hypsypops rubicundus</i>	-	-	-	-	-	-	-	-	2	-
<i>Mugil</i> spp.	2	-	-	1	-	2	1	-	9	3
Apogonidae	1	-	2	1	-	-	-	3	5	4
<i>Brama</i> spp.	4	1	-	2	2	-	15	5	9	6
Carangidae	15	14	-	9	-	9	10	15	26	12
<i>Seriola</i> spp.	-	-	-	1	-	-	-	-	1	1
<i>Seriola lalandi</i>	-	-	-	5	2	11	36	7	36	21
<i>Trachurus symmetricus</i>	372	419	322	373	369	217	295	328	286	227
<i>Coryphaena hippurus</i>	-	-	-	-	-	6	24	13	27	7
Gerreidae	-	-	-	-	-	-	13	5	7	8
Haemulidae	-	-	-	-	-	-	14	6	11	17
<i>Girella nigricans</i>	-	5	-	1	-	3	3	4	2	4
<i>Medialuna californiensis</i>	9	11	-	17	5	5	12	2	1	4
<i>Caulolatilus princeps</i>	-	-	-	12	4	8	10	2	10	9
Mullidae	-	-	-	-	-	-	-	-	6	-
Priacanthidae	-	-	-	-	-	-	-	-	1	-
Sciaenidae	12	61	30	90	61	58	70	76	71	74
Serranidae	20	29	10	29	1	8	17	31	66	39
Gempylidae	2	1	-	-	-	-	-	6	4	10
Scombridae	-	1	-	1	2	-	7	4	3	40
<i>Auxis</i> spp.	9	1	1	1	-	9	23	3	20	-
<i>Euthynnus</i> spp.	-	-	-	-	-	-	-	-	3	-
<i>Sarda chiliensis</i>	-	-	-	-	-	4	1	2	9	2
<i>Scomber japonicus</i>	59	73	97	119	93	39	71	81	65	45
<i>Scomberomorus</i> spp.	1	-	-	-	-	1	1	3	2	-

TABLE 5. (cont.)

Name	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
<i>Thunnus albacares</i>	-	-	-	-	-	-	-	8	2	-
Trichiuridae	23	31	16	36	25	28	47	24	61	45
<i>Sphyræna argentea</i>	14	16	5	6	3	14	15	15	27	28
<i>Ichthyos lockingtoni</i>	125	139	114	125	105	95	70	79	74	86
Nomeidae	-	-	-	-	-	-	5	2	9	3
<i>Peprilus similimus</i>	14	50	28	38	47	34	37	26	22	12
<i>Tetragonurus cuvieri</i>	29	17	8	10	65	146	124	17	26	29
Chiasmodontidae	24	33	16	31	24	14	57	59	75	34
Uranoscopidae	1	-	-	-	-	-	1	1	1	2
Pleuronectiformes	9	13	48	46	13	6	5	11	5	16
Bothidae	-	1	-	-	-	-	-	-	-	-
Bothus spp.	3	-	1	3	1	2	4	8	4	2
<i>Citharichthys</i> spp.	428	524	561	147	158	82	127	118	121	151
<i>Citharichthys fragilis</i>	-	-	-	152	107	93	125	101	106	137
<i>Citharichthys platophrys</i>	-	-	-	-	-	-	-	-	1	-
<i>Citharichthys sordidus</i>	-	-	-	109	56	59	62	69	48	20
<i>Citharichthys stigmæus</i>	-	-	-	347	206	207	191	136	134	101
<i>Citharichthys xanthostigma</i>	-	-	-	189	163	106	208	80	118	117
<i>Etropus</i> spp.	-	-	-	4	-	-	16	16	20	14
<i>Hippoglossina</i> spp.	1	-	-	-	-	-	-	-	-	1
<i>Hippoglossina stomata</i>	13	27	42	57	22	34	44	33	32	39
<i>Paralichthys</i> spp.	-	-	-	-	-	-	-	1	-	1
<i>Paralichthys californicus</i>	18	50	19	42	22	23	30	48	37	39
<i>Syacium ovale</i>	5	2	1	3	-	2	6	8	8	1
<i>Xystreureus liolepis</i>	3	16	10	5	4	1	7	2	5	8
<i>Eopsetta jordani</i>	-	1	-	-	-	-	-	-	-	-
<i>Glyptocephalus zachirus</i>	12	25	6	9	5	8	11	14	8	7
<i>Hypopsetta guttulata</i>	-	-	2	-	-	-	1	3	-	1
<i>Isopsetta isolepis</i>	-	-	-	-	-	-	-	1	-	-
<i>Lyopsetta exilis</i>	51	80	68	116	57	74	90	50	48	50
<i>Microstomus pacificus</i>	28	30	17	17	30	19	26	20	20	15
<i>Parophrys vetulus</i>	-	31	45	51	50	36	39	62	29	30
<i>Pleuronichthys</i> spp.	14	14	10	18	23	18	7	13	7	10
<i>Pleuronichthys coenosus</i>	17	6	13	11	17	3	5	5	5	5
<i>Pleuronichthys decurrens</i>	4	4	4	2	4	2	3	4	4	3
<i>Pleuronichthys ritteri</i>	1	8	9	-	4	5	3	3	2	2
<i>Pleuronichthys verticalis</i>	3	44	24	31	26	33	40	7	7	36
<i>Psettichthys melanostictus</i>	-	-	36	35	-	1	5	5	3	2
<i>Symphurus</i> spp.	45	50	-	-	11	49	80	40	75	64
Balistidae	1	-	-	-	-	-	-	1	-	-
Tetraodontidae	2	-	-	-	1	-	-	-	-	-
Disintegrated fish larva	229	253	74	63	124	103	193	258	361	482
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